



DVD PLAYER

DV-505

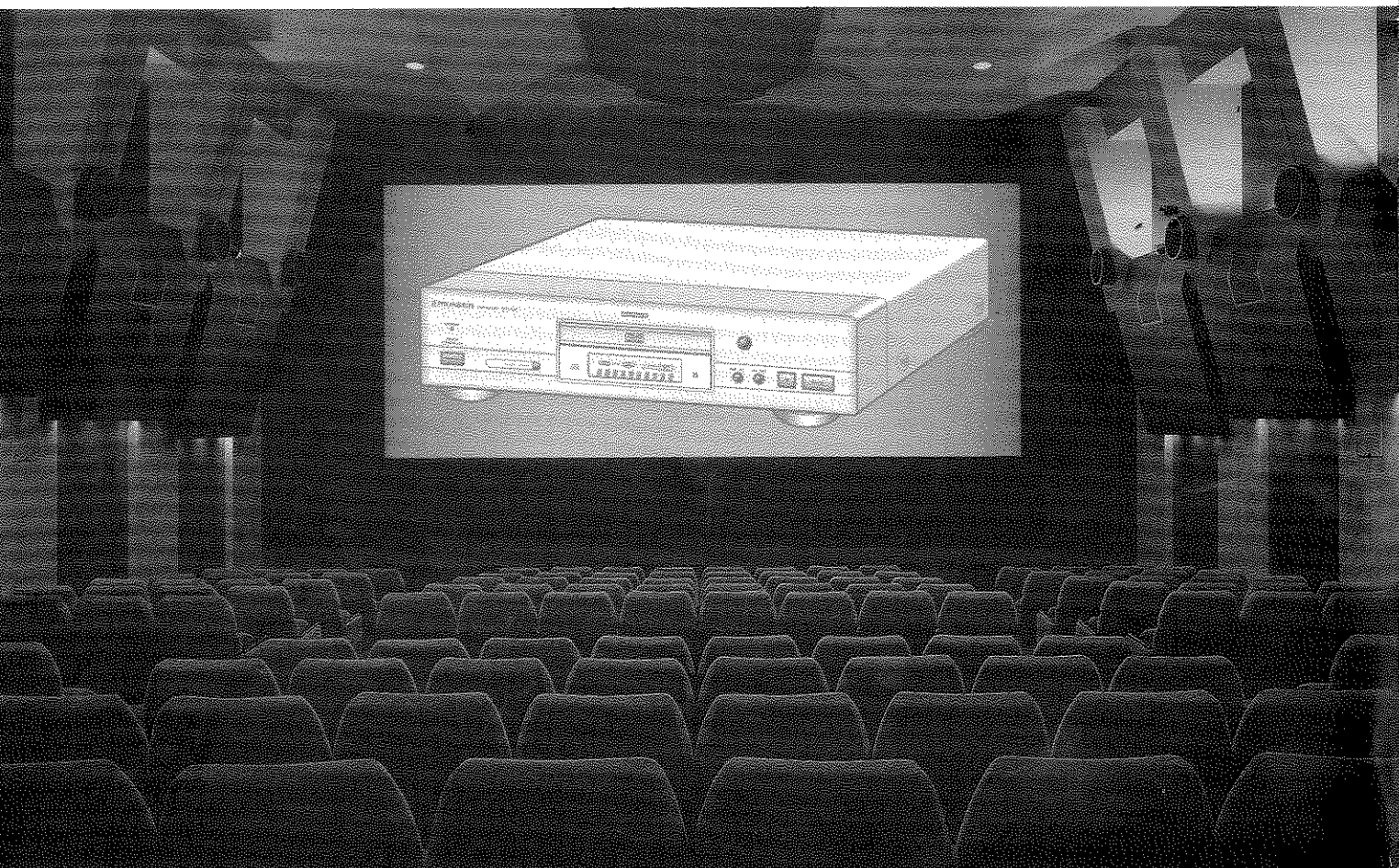
Operating Instructions

NTSC/PAL

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

● This player is not suitable for commercial use.

- First refer to "Before Using" on page 8 and "Connecting the Player" on pages 44 ~ 46.
- Refer to pages 10 ~ 12 for basic playback.



IMPORTANT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

The following caution appears on your player.

Location: rear of the player

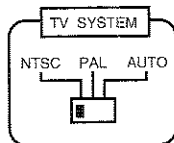
**CLASS 1
LASER PRODUCT**

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

PAL/NTSC SYSTEM SWITCHING

TV SYSTEM switch



Use this switch to change mode according to the type of TV and disc to be used.

Video output changes as follows according to the playback disc's recorded format.

Disc		Output format		
Type	Format	Position of TV SYSTEM switch		
		NTSC	PAL	AUTO
Video CD	NTSC	NTSC	MOD. PAL	NTSC
	PAL	NTSC	PAL	PAL
DVD	NTSC	NTSC	MOD. PAL	NTSC
	PAL	---	PAL	PAL
CD, No disc		NTSC	PAL	NTSC or PAL
Stop mode		NTSC	PAL	NTSC or PAL

1. NTSC → PAL, PAL → NTSC conversion is possible on Video CDs.
2. NTSC/PAL conversion is not possible on DVDs.
3. When the TV SYSTEM switch is set to the AUTO position, the disc's format will be output as is.
When a CD or disc is not loaded, the previous video output format will be selected.

About MOD. (Modulation) PAL

- ***SHRINK**

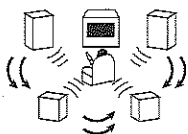
Most models of the newly developed countdown PAL TV system detect 50 Hz (PAL)/60 Hz (NTSC) and automatically switch vertical amplitude, resulting in a display without vertical shrinkage.

- If your PAL TV does not have a V-Hold control, you may not be able to view NTSC disc because the picture may roll. If the TV has a V-Hold control, adjust it until the picture stops rolling. On some TVs, the picture may shrink vertically, leaving black bands at the top and bottom of the screen. This is not a malfunction; it is caused by the NTSC → PAL conversion.

See What You Can Do

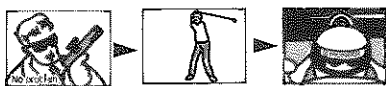
Dolby Digital*

Connect to a Digital Surround Amp and Surround Processor for 5.1ch Dolby Digital Surround entertainment.



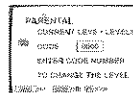
Program Play*

Lets you play back selected titles and chapters in any desired order.



Parental Level*

Lets you select a "parental level" (user restriction level) to prevent children viewing undesirable material.



Virtual Dolby Surround* 1)

With Virtual Dolby you can enjoy a virtual sound presence that is three dimensional, even on the stereo system you are presently using. There may be no effect (or little effect) in some cases.



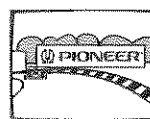
Multi-Aspect*

You can select between Regular, Wide, and Letter Box display formats.



PBC Video CD Compatibility

Ready to play Video CDs (Version 2.0) with PBC (Play Back Control). Two types of playback possible depending on the disc.



GUI Operation

While viewing Pioneer's original GUI on-screen displays, you can perform operations by remote control. Even if there is no menu recorded on a disc, you can still perform GUI operation with the menu provided by the player.



Cinema Mode & Animation Mode*

Lets you select the ideal picture quality for watching movies and animation movies.



Power On Demo Display

Switching ON the Power On Display provides a wide range of indications. To turn on the POWER ON DEMO display, press the POWER switch while pressing the >>>> button. Press either button to turn the display off.

Last Memory Play*

If you stop watching a video part way through, this lets you continue watching from the same place later.



Condition Memory*

The following settings of DVDs that you often watch can be recorded, and recalled automatically.

- Multi Aspect
- Cinema Mode/Animation Mode
- Multi-Language Subtitles
- Multi-Language

Still Frame, Slow Play, Single Frame Advance*

You can view still frames, slow play, and advance one frame at a time.



Multilingual Subtitles*

You can select a desired subtitle language when watching movies and other videos.



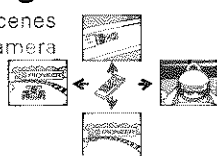
Repeat Play*

Wide range of Repeat Play possibilities.



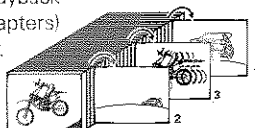
Multi-Angle*

Lets you view scenes from different camera angles.



Random Play*

You can enjoy playback of tracks (or chapters) in random order.



Multiple Languages*

With discs that have multiple language soundtracks recorded on them, you can select the desired language.



This product incorporates copyright protection technology that is protected by method claims of certain U. S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Users of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

1) SRS Labs, Inc.'s TruSurround system

[TruSurround] is adopted for use on this unit.

TruSurround is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries.

* Indicates this feature may not be possible with certain discs.

Disc Types Compatible with This Unit

This player is DVD, CD, and Video CD compatible. The marks shown on the right are found on disc labels or on disc jackets.

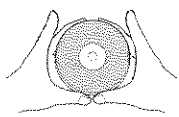

- This player can play all discs bearing the marks on the right without the need for an adaptor.
- To prevent malfunction, do not use an 8 cm (3 in.) adaptor (for CDs).

This unit is NTSC/PAL compatible.

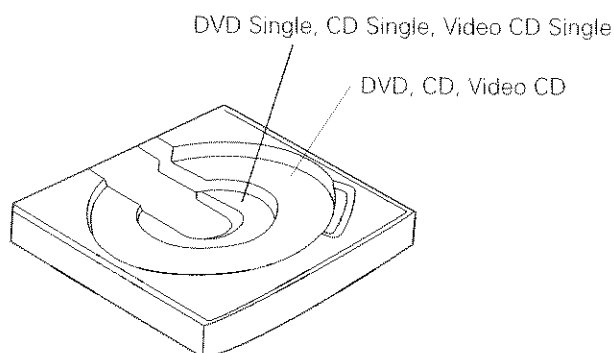
You cannot use discs other than those shown on the right.

* During DVD playback, data transfer is at 4.7 MBit per second.

Handling the discs




Holding with both hands	
Holding with one hand	

Disc Table



Note

- ◆ You cannot play DVDs that do not bear the Region No. (refer to "Terms" on page 54) indicated on the player's rear panel.

Types of playable discs and their marks	Diameter/Playable sides	Playback time
DVD VIDEO 	DVD VIDEO*	Digital audio Digital video (MPEG 2)
	12 cm (5 in.)/ single-sided	1 layer 2 layer
	12 cm (5 in.)/ double-sided	1 layer 2 layer
	DVD VIDEO*	Digital audio Digital video (MPEG 2)
	8 cm (3 in.)/ single-sided	1 layer 2 layer
	8 cm (3 in.)/ double-sided	1 layer 2 layer
VIDEO CD 	VIDEO CD	Digital audio Digital video (MPEG 1) Max. 74 minutes
	VIDEO CD single	Digital audio Digital video (MPEG 1) Max. 20 minutes
CD 	CD	Digital audio Max. 74 minutes
	12 cm (5 in.)/ single-sided	
	CD single	Digital audio Max. 20 minutes
	8 cm (3 in.)/ single-sided	

Discs other than the ones indicated above can not be played on this unit.

To avoid damage etc., do not play any discs other than those indicated above.

Ex: DVD-Audio, DVD-ROM, CD-ROM, CD-R etc...

Contents

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Applicable discs

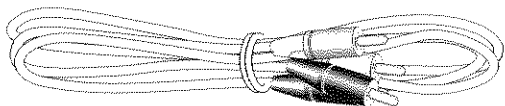
	DVD	CD	VIDEO CD	
10	●	●	●	Basic Operation
11	●	●	●	
12	●	●	●	
13	●	●	●	
16	●		●	Detailed Operation
17	●	●	●	
19	●	●	●	
20	●	●	●	
21	●	●	●	
22	●	●	●	
24	●			
26	●	●*	●*	Setting
28	●			
29	●			
29		●	●	
30	●			
30	●			
31	●	●	●	
32	●	●	●	
38	●	●	●	
41	●			
44				Set-Up
45				
46				
46				
47				
48				
48				Other Information
49				
50				
51				
53				
55				

* will not operate with some modes of disc.

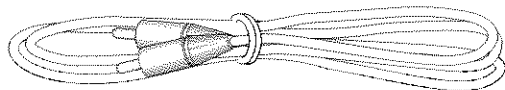
Before Using

Check accessories

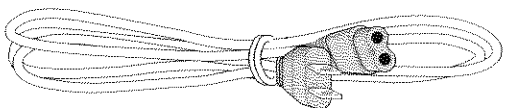
Audio cord



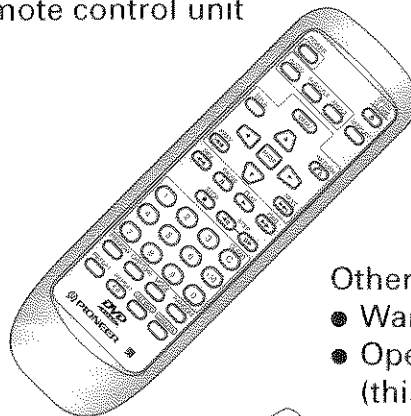
Video cord



Power cord



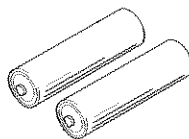
Remote control unit



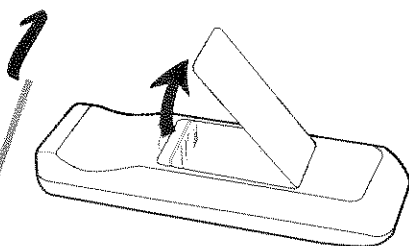
Other included items:

- Warranty card
- Operating Instructions (this manual)

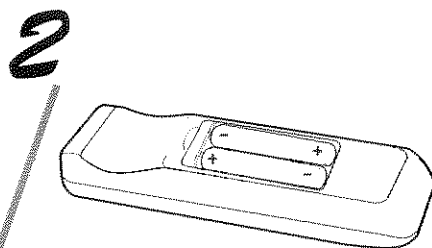
Batteries....2



Inserting batteries into the remote control

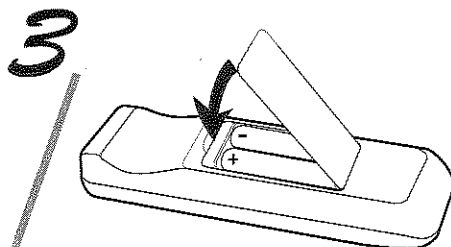


While pressing the back cover, pull out in the direction indicated by the arrow.



Insert batteries.

Make sure to match the plus (+) and minus (-) polarity guides on the batteries with the marks inside the battery compartment.



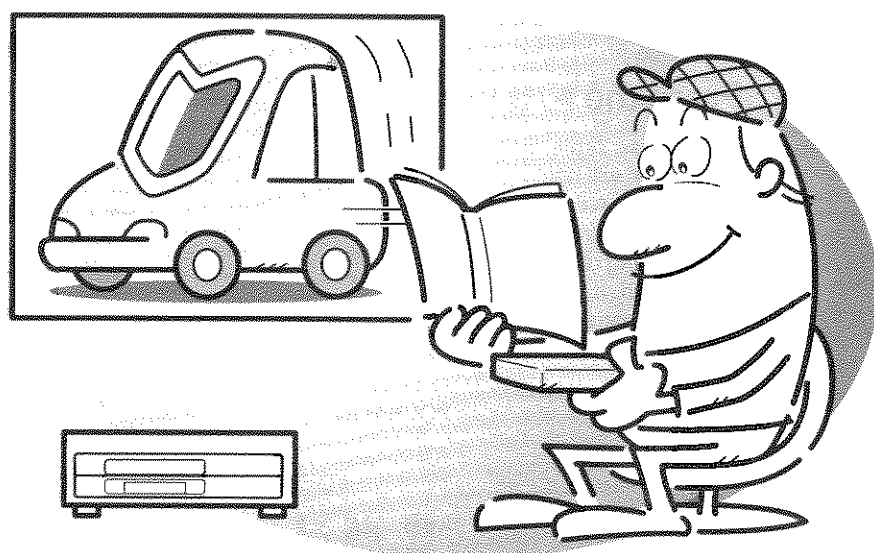
Close the cover.

Note

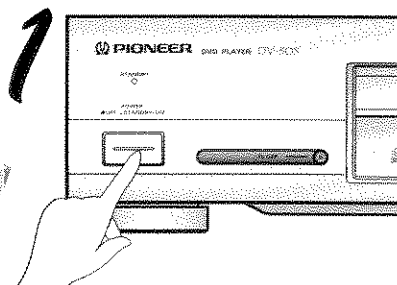
- ◆ Do not mix old and new batteries.
- ◆ Even batteries of the same type will differ in voltage. Do not mix old batteries with new batteries.
- ◆ When not using the remote control for a long period of time (over 1 month), remove the batteries to avoid possible damage from battery corrosion. If battery leakage occurs, wipe the battery liquid from the battery component, then insert new batteries.

Basic Operation

Playing DVDs, CDs and Video CDs	10
Chapter (Track) Skip Forward/Skip Back	11
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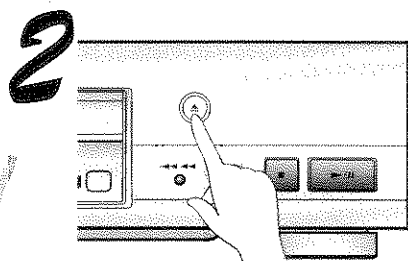
Playing DVDs, CDs and Video CDs



Press the POWER switch.

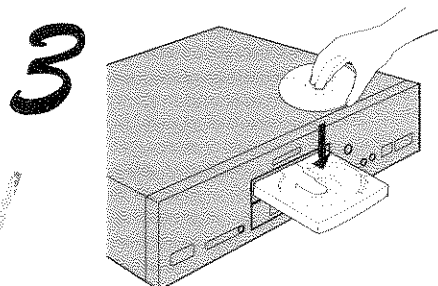


- The FL display can be turned off by pressing the FL OFF button on the main unit. At this time the indicator in the button will light.



Press the \triangle button.

- Press OPEN/CLOSE \triangle button on the remote control unit.
- The disc table comes out.

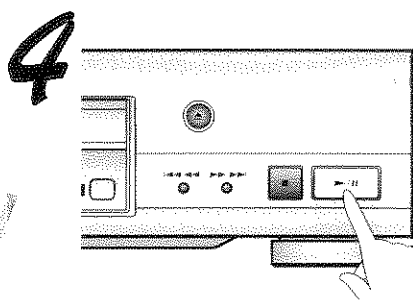


Load a disc.

- Load a disc with the label facing up, using the disc table guide to align the disc.

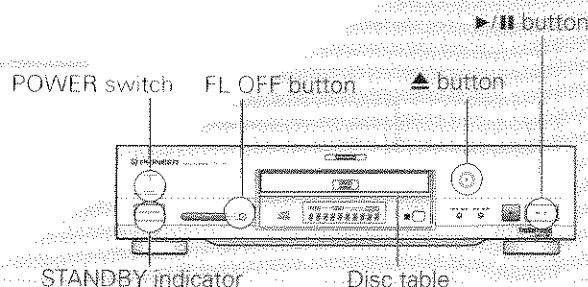
Note

- ◆ DVDs that do not have the matching region No. that allows playback can not be played back (refer to the "Terms" section on page 54).
- ◆ Only DVD VIDEO discs can be played back.
- ◆ During operation, the following marks may appear on the TV screen.
- : Appears when this player has performed a prohibited function.
- : Appears when the disc has performed a prohibited function.



Press the \blacktriangleright /II button.

- The disc table will close, and playback will begin.
- Press PLAY \blacktriangleright button on the remote control unit.
- Depending on the disc, a menu is displayed. If a menu is displayed, refer to page 16.



\blacktriangleright /II button

POWER switch

FL OFF button

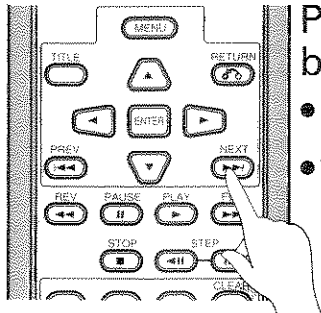
\triangle button

STANDBY indicator

Disc table

Chapter (Track) Skip Forward/Skip Back

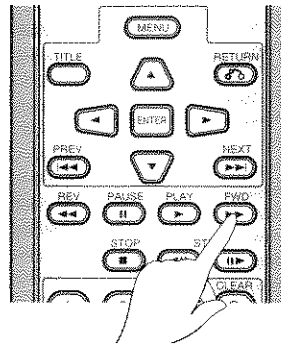
Skipping forward to the next chapter (track)



Press the NEXT button.

- Press to skip forward to the next chapter (track).
- The button on the front panel has the same function.

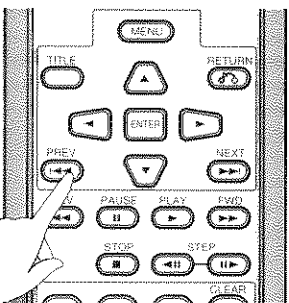
Fast forward



Press and hold the FWD button.

- Release the FWD button when you reach the desired location. Normal playback resumes.
- The button on the front panel has the same function.
- When the "SCAN" indicator on the screen changes from flashing to lit, fast forward will continue even if the button is released. When the desired location has been reached, press the play button.

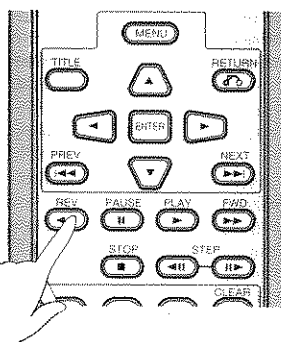
Skipping back to the previous chapter (track)



Press the PREV button.

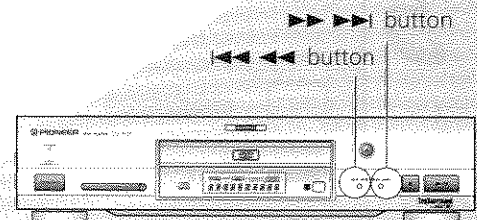
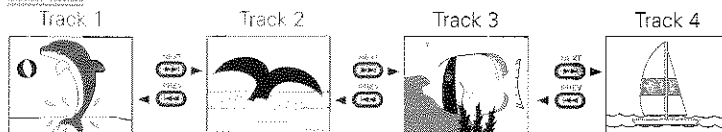
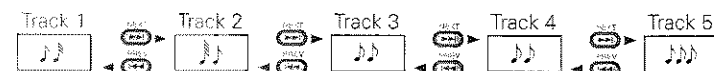
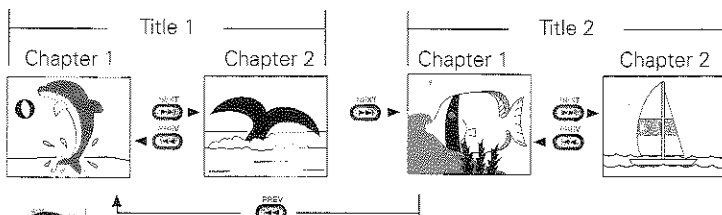
- Press once to skip back to the start of the chapter (track) currently playing.
- Press again to skip back to the start of the previous chapter (track).
- The button on the front panel has the same function.

Fast reverse

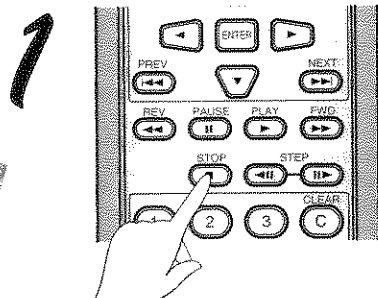


Continue pressing the REV button.

- Release the REV button when you reach the desired location. Normal playback resumes.
- The button on the front panel has the same function.
- When the "SCAN" indicator on the screen changes from flashing to lit, fast reverse will continue even if the button is released. When the desired location has been reached, press the play button.

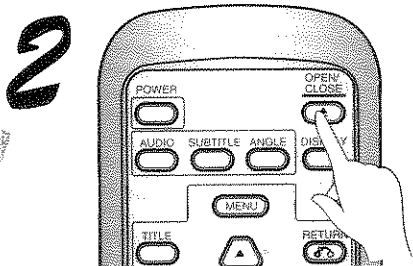


Stopping Playback & Switching Power OFF



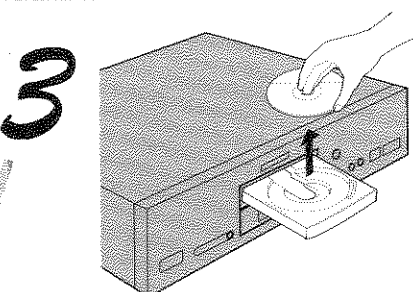
Press the STOP button.

- On the front panel, press ■.
- Playback stops.



Press the OPEN/CLOSE button.

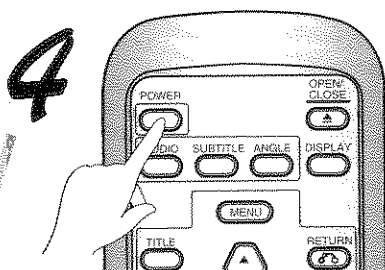
- On the front panel, press ▲.
- The disc table comes out.



Remove the disc.

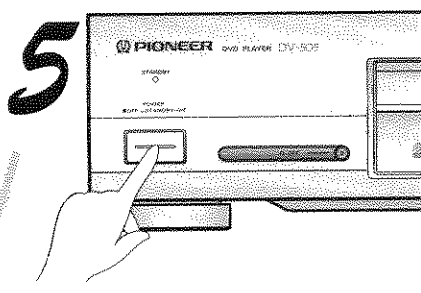
Note

- ◆ You can stop part way through and continue playback later from the point where you stopped. Refer to page 13.



Press the POWER button on the remote control unit.

- The disc table goes back in and the STANDBY indicator lights.



Press the POWER switch on the front of the player.

STANDBY indicator

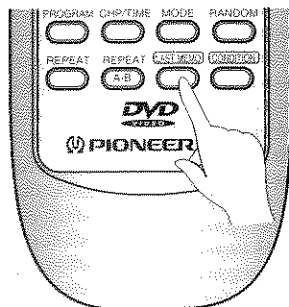
▲ button

POWER switch

■ button

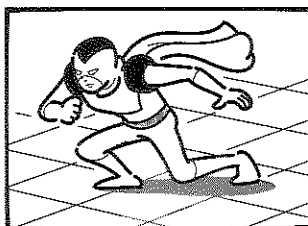
Continuing Playback from Where You Stopped

Memorizing the place where you stopped watching (LAST MEMORY)



Press the LAST MEMO button during play.

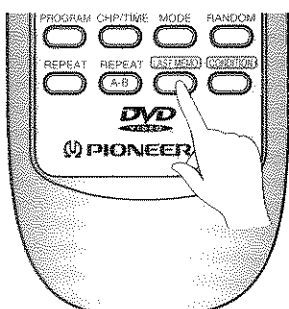
- The LAST MEMORY indicator lights on the player.
- Press the POWER button on the remote control unit to switch power OFF, or press the STOP ■ button to stop playback.



Tips

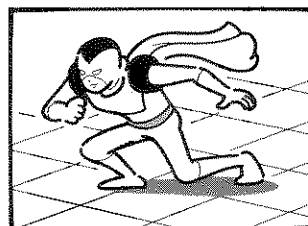
- With DVDs, LAST MEMORY memorizes video, audio, display, mode, and other settings as well as the place where playback stopped.
- Even with a disc you have memorized with LAST MEMORY, playback begins at the start of the disc if you press the PLAY ► button.
- When you continue playback from the point where you stopped, LAST MEMORY is automatically canceled for that disc.
- If you register more than five DVDs in LAST MEMORY, details of the latest disc are memorized, while details of the least recent disc (the disc you registered first) are erased.
- When a Video CD is ejected, memorized data will be cleared.
- In the case of DVDs, the Last Memory mode may not function for some titles.

Resuming playback from where you stopped



Press the LAST MEMO button during STOP.

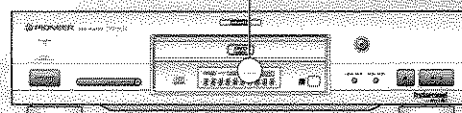
- When the power is turned off and a disc inserted, the power will be turned on and playback will start automatically.



Note

- ◆ This function is for playback of DVDs and Video CDs. You cannot use it with CDs.
- ◆ When there is a power outage, the power is turned off during playback, with the POWER switch on the main unit or you disconnect the player from the wall outlet while the power is ON, settings are cleared. Before disconnecting the power cord, press the POWER button on the remote control to enter the unit to standby mode after distinguishing the "— OFF —" display, then press the POWER switch on the main unit.
- ◆ When PBC playback is engaged on Video CDs, continuous playback may not be possible.

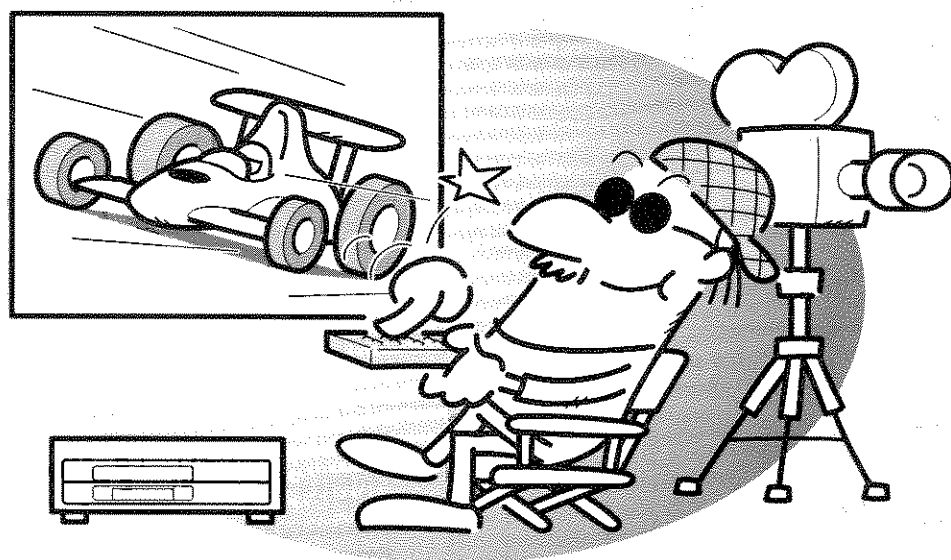
LAST MEMORY indicator



Continuing Playback
from Where You Stopped

Detailed Operation

Playback by Menu Selection	16
Searching for a Desired Video Scene	17
Playback in a Desired Order (Program Play)	19
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Still Frame/Slow Play/Frame Advance	21
Random Play	22



Playback By Menu Selection

DVDs and Video CDs, depending on the disc, feature selection menus. This player lets you choose a desired title or track by selecting from a menu.

Selection and playback from a menu

Returning to menu display during playback

During DVD playback

① Press .

② Press .

- Press again for a menu of title contents.
- Operate according to disc menus.

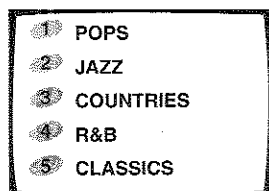
During Video CD playback

Press .

Pressing the during PCB playback will display the menu. With PBC playback, because the player's operation method and functions depend on the PBC signal recorded on the disc, they will differ according to the disc. For details, please refer to the disc's instruction manual.

① Press .

- A menu is displayed. This menu is recorded on the disc. Menus differ depending on the disc.
- With Video CDs that have Play Back Control, PBC is indicated in the display window.



② For example, to select ② JAZZ, press the ② number button.

- When selecting a number higher than 10, use the button.
- When selecting 10, press → .
- When selecting 17, press → .
- When selecting 20, press → → .
- The selected title or track starts playing.
- With DVDs, you can also select numbers with the and buttons and then press .

Tips

- Menu details differ depending on the disc. Play a disc by making menu selections using the direction buttons (, , ,), and the number buttons.
- You can also play Video CDs without calling up a menu by pressing a number button during STOP. For example, to start playback from track 1, press the .
- For some titles, selection can be made using the menu. In this case press the while the indicator is displayed, display the menu screen and make your selection.

Note

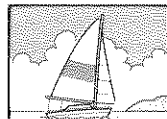
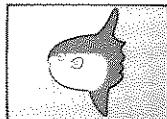
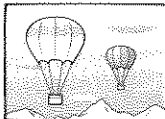
- ◆ When using a menu for Video CD playback; Program, Random, Repeat Play and Track/Time Search functions do not operate.



Title 1



Title 2



Searching For A Desired Video Scene (Title Search)

Direct search with title numbers

- 1 Press **TITLE** during playback.
(During the stop mode, proceed to step 2 without pressing the **TITLE** button.)

TITLE 1

- Title numbers flash on screen.

- 2 Selecting title numbers directly with the number buttons.

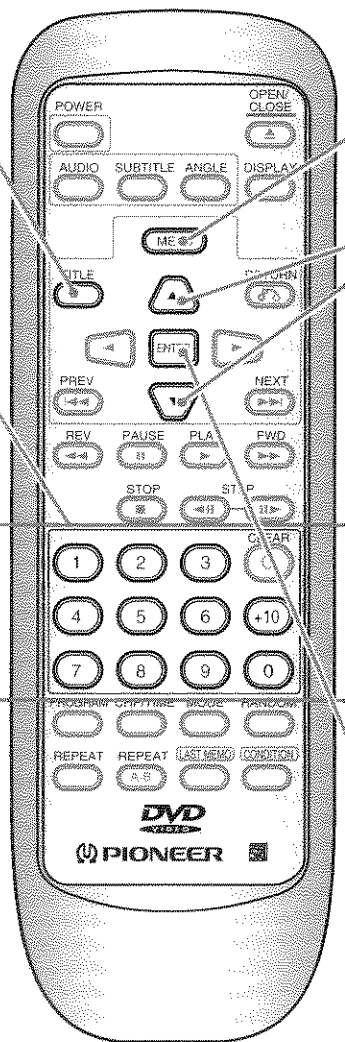
- When selecting title number 3, press **3**.

TITLE 3

- When selecting title number 10, press **+10** → **0**.

TITLE 10

- Pressing and holding the **TITLE** button while the TITLE number is flashing will advance the TITLE number one by one. Selection can be made by selecting the desired number and pressing the **ENTER** button.

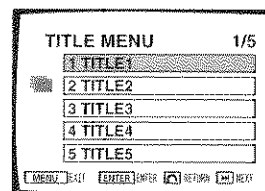


Searching with the menu

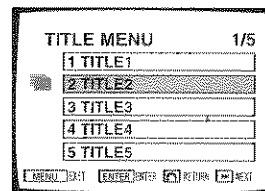
- 1 Press **TITLE**.

(If the stop mode is engaged, proceed to step 3.)

- 2 During playback, proceed to step **MENU**.



- 3 Select a title number using the **UP** **DOWN** buttons.



- 4 Press **ENTER**.

- Playback of the selected title starts.

Note

- ◆ You cannot play back successive titles.
- ◆ To play back multiple successive titles, program the titles and then perform Program playback.
- ◆ With certain DVDs, the search operation may stop. In this case, the **STOP** mark is displayed.
- ◆ Menus may not be displayed on some discs.

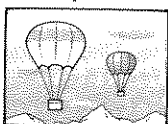
Tips

- Direct selection is also possible using the number buttons. The selected title will be playback immediately.
- For some titles, selection can be made using the menu. In this case press the **MENU** button while the indicator is displayed, display the menu screen and make your selection.

Chapter 1



Chapter 2



Chapter 3



Chapter 4



Searching for a Desired Video Scene/Audio Track (Chapter/Track Search)

There are 3 search functions available for DVD discs: Normal search, Direct search and Time search. For CDs and Video CDs, Direct search is possible.

Searching by chapter/track number.

Direct search using number buttons.

Example 1: To select chapter/track number 3

CHP 3

Example 2: To select chapter/track number 17

CHP 17

- During the stop mode on a DVD, use the "Searching For a desired Video Scene (Title search)" (p. 17)

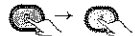
When the chapter/track number is large

① Press **CHP/TIME**.

- Chapter/track numbers flash on screen.
- On DVDs, the menu may be displayed during the stop mode. In this case, please refer "Chapter Number Search with the menu" on the right.

② Select chapter numbers directly with the number buttons.

Example 1: To select chapter/track number 31



Example 2: To select chapter/track number 187



③ Press **PLAY**.

- Playback of the selected chapter/track starts.

Note

- Time search is not possible with CDs.
- With DVDs, Time search may be possible with certain titles. In this case, the **Ⓢ** mark is displayed.
- When performing DVD Time Search, playback may start from a slightly different time than that specified.
- On DVDs, Time search is not possible during the stop mode.
- Search using the above operation is not possible during PBS playback of Video CDs.

Chapter Number Search with the menu

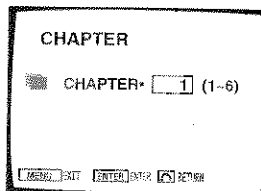
This operation is for DVDs only.

① Press **CHP/TIME**.

- If the stop mode is engaged, proceed to step 3.

② Press **MENU**.

- Chapter menu is displayed.



③ Selection according to screen displays.

- Depending on the title, the menu may not be displayed. In this case, please refer to the method on the left.

Searching by time/frame number (Time search/Frame search)

① Press **CHP/TIME** twice to.

CHP 0 → TIME 0.00

- With DVDs that do not have chapters, pressing the button once will display the time.

② Select the desired time/frame number with the number buttons.

Example 1: To select 21 minutes 43 seconds



TIME 21.43

Example 2: To select frame number 423



- You cannot search for chapters that overlap titles. You can only search for chapters within the same title.

③ Press **PLAY**.

- Playback starts from the selected elapsed play time.

- To clear Title, Chapter, and Time indications when they are flashing, press the **CLEAR** button twice.
- For some titles, selection can be made using the menu. In this case press the **MENU** button while the indicator is displayed, display the menu screen and make your selection.

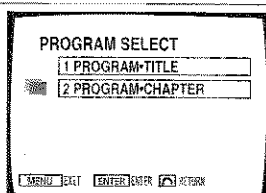
Searching for a Desired Video Scene/Audio Track

Playback in a Desired Order (Program Play)

Programming (DVD)

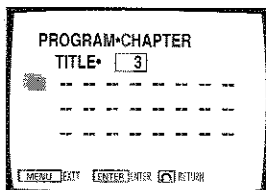
① Press **PROGRAM**.

② Select the program type with the number buttons.

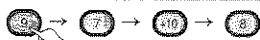


③ When chapter programming was selected, first press the **ENTER** button to move to TITLE, then use the number buttons to select the title that contains the chapter to be programmed.

● Follow procedure 4 to select a title.

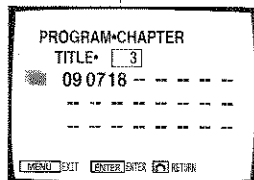
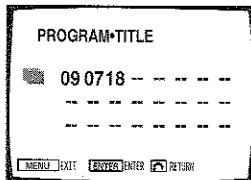


④ Programming DVD titles/chapters 9, 7, and 18 in order.



DVD title

DVD chapter

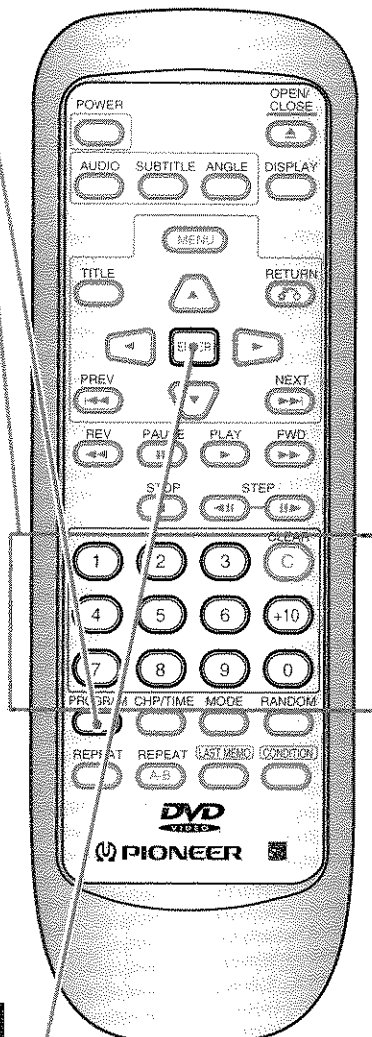


⑤ Press **ENTER**.

● Playback starts in the set order.

Tips

- You can program up to 24 steps.
- If you press the wrong number button, press **CLEAR** and then press the correct number button.
- Program play is not possible with discs that have no chapter numbers recorded on them.
- Pressing **PAUSE** during programming: If you press **PAUSE** instead of a number button, **II** is displayed indicating that a pause has been programmed.



Program setting (Video CDs, CDs)

① Press **PROGRAM**.

② Programming tracks 9, 7, and 18 in order.



Press the number buttons in order.

③ Press **ENTER**.

● Playback starts in the specified track order.

Confirmation, addition or cancellation of programs

1 Press the **PROGRAM** button.

2 In the case of a DVD, press the number buttons to select the program type, and then press **ENTER**.

● Confirmation can be made with the above procedure.

3 To add to the program, select the song with the number buttons and then press **ENTER**.

● Program additions can be made with the above procedure.

4 To cancel the program, select the song with the **PREV** and **NEXT** buttons, and then press the **ENTER** button.

● The complete program will be canceled, even when the disc table is open.

Stopping program play

Press **STOP**.

● Program play stops.

Note

- ◆ You cannot program when playing a Video CD using menu selections (during PBC).
- ◆ When moving chapters, chapter not programmed may appear on screen, but this is not a malfunction.
- ◆ Programming may not be possible with certain DVD discs. On these types of discs, the **STOP** mark will appear on the screen when programming is attempted.
- ◆ Only chapters within the same title can be programmed during chapter programming.

Repeat Play

Repeat play of a chapter/track

Press **REPEAT** once during playback of the chapter or track you want to repeat.

Repeat play of a title

Press **REPEAT** twice during playback of the chapter or track you want to repeat.

- With DVDs, the title continues playing until the end, and then playback starts once more from the beginning of that title.
- With CDs and Video CDs, a disc is title, so the entire disc is repeated.

Repeat play of a specified section

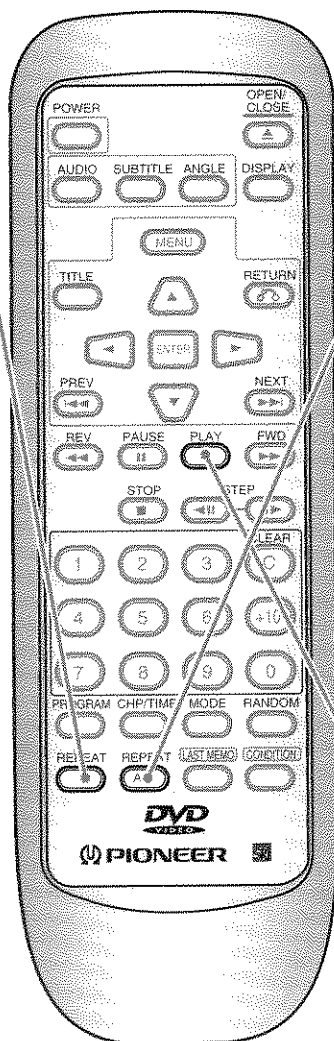
Press **REPEAT A-B** at the beginning and end of the section you want to repeat.

Return to a specified location

① Press **REPEAT A-B** at the desired location.

② When you want to return, press **PLAY**.

- Press **CLEAR** to clear a specified location.



Tips

- Press the **REPEAT** button during program playback to repeat playback of the program.
- Press **CLEAR** to cancel Repeat play. The Repeat play mode is canceled, but playback continues.
- With DVDs, repeat playback between titles is not possible.

Note

- ◆ With some DVD discs, there may be times when Repeat playback is not possible because of the title. In this case, the **REPEAT** mark will appear on the screen.
- ◆ With Video CDs, Repeat play is not possible during playback with the menu displayed (PBC playback). To perform Repeat play, start playback without displaying a menu (refer to page 16), and press **REPEAT**.

Still Frame/Slow Play/Frame Advance



Frame by frame advance playback: The picture can be viewed one frame at a time.

- 1 Press **PAUSE**.
- 2 Press the **STEP** or **STEP** button.

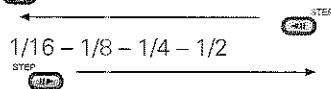
STEP: The picture will be advanced by one frame each time the button is pressed

STEP: The picture will be backed up little by little each time the button is pressed. (DVD only)

Slow playback-Viewing a slow picture

Press and hold the **STEP** button during playback.

Slow playback will be engaged. During slow playback, the slow playback speed can be selected with the **STEP** and **STEP** buttons.

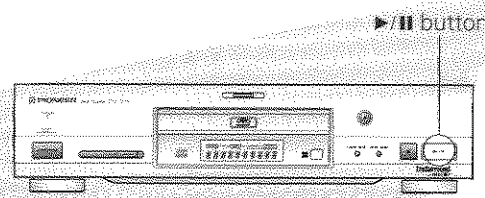
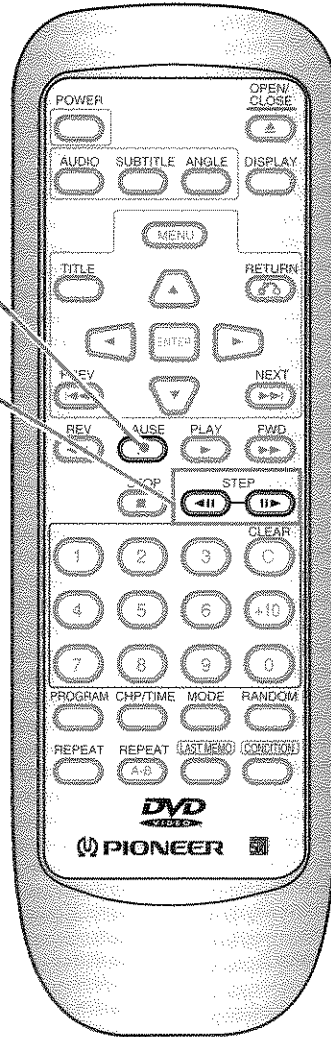


Press and hold the **STEP** button during DVD playback.

Slow playback in the reverse direction will be engaged.

Tips

- To return to normal playback, press **PLAY** (or the **▶/II** button on the player).



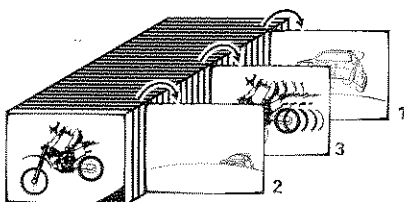
Viewing a still frame

Press **PAUSE**.

- Press the **▶/II** button on the front of the player.
- If the still picture shakes on a DVD, refer to page 26 and select the "FIELD" setting.

Note

- There is no sound when viewing still frames or when advancing one frame at a time.
- Pause may not be possible with certain discs. In this case, the mark is displayed.



Random Play

On DVDs....

Random playback of chapters within one title

Press **RANDOM** once, then press **ENTER**.

- "RANDOM CHP" will appear on the screen, and chapters within the title will be played back in a random order.

Random playback of titles

Press **RANDOM** twice, then press **ENTER**.

- "RANDOM TITLE" will appear on the screen, and titles will be played back in a random order.

On CDs, Video CDs....

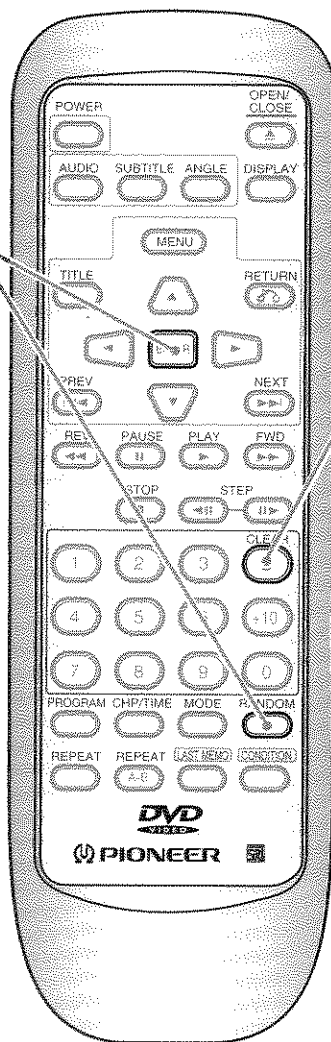
Random playback

Press **RANDOM**.

- "RANDOM" will appear on the screen, and random playback will begin.

During Random play:

- Press **NEXT**, and the player's next selection starts playing.
- Press **PREV**, and playback of the current selection starts again from the beginning.



Stopping random play

Press **CLEAR**.

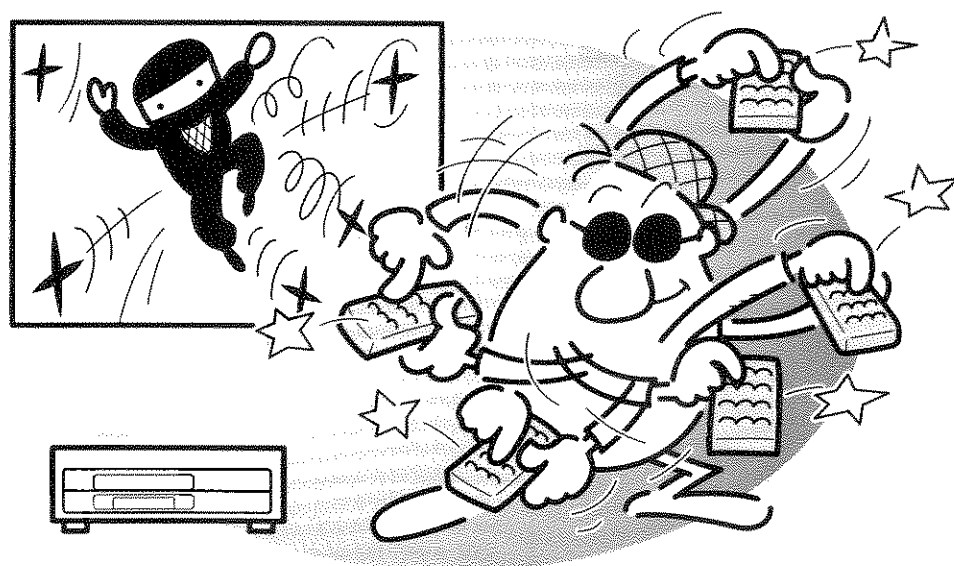
- This returns you to normal playback of chapters/tracks in order from the chapter/track currently playing.

Note

- ◆ With Video CDs, Random play is not possible during playback with the menu displayed (PBC playback). To perform Random play, start playback without displaying a menu (refer to page 16), and press **RANDOM**.
- ◆ Random play of programmed chapters/tracks is not possible.
- ◆ In the case of DVDs, random playback may not be possible with some titles.
- ◆ Repeat playback of random playback is not possible.

Setting

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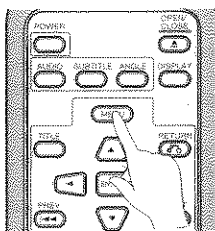
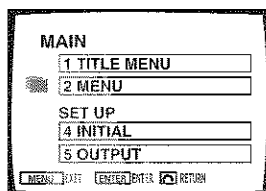




Multi-Aspect Setting for Wide Screen TV Software

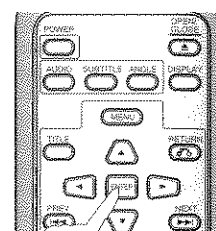
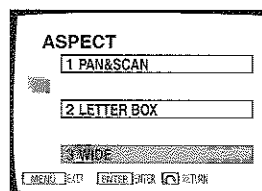
Certain DVDs feature image data recorded with the "squeeze" recording system for wide screen viewing. When watching this kind of DVD on a conventional TV, the picture may appear vertically squeezed. If this occurs, you can use the Multi-Aspect function to achieve a normal picture.

1. Press **MENU** during stop.

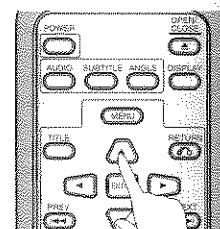
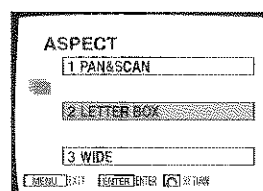


- The set-up menu is displayed.

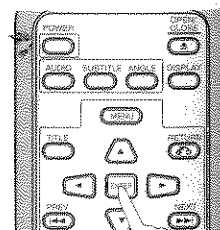
5. Press **ENTER**.



6. Select the desired mode (PAN & SCAN, LETTER BOX, WIDE) with the **▲▼** buttons.

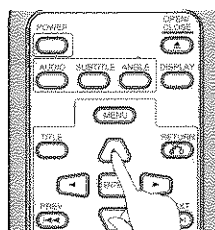
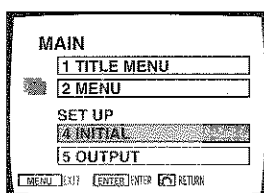


7. Press **ENTER**.



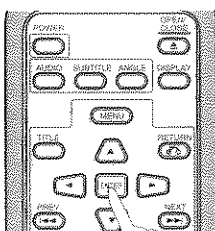
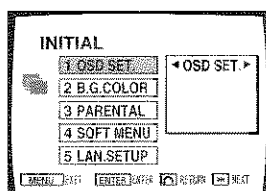
- The picture changes to the desired type.

2. Select initial set-up with **▲▼**.



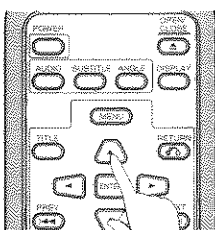
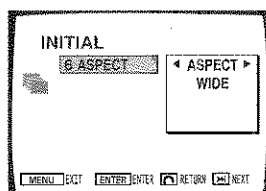
- The initial set-up button will be displayed in blue.

3. Press **ENTER**.




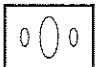
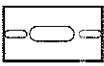
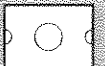
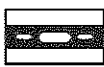



- The initial set-up screen will be displayed.


4. Select ASPECT using **▲▼** buttons.



- Pressing and holding the **▼** button will display the next page's screen shown above.

For DVDs where aspect switching is possible, select the aspect that matches the TV.

Disc	Aspect selection	Wide TV (16:9)	Regular TV (4:3)
(16:9)	Wide		
	Pan & scan		
	Letter box		
(4:3)			

When the above chart's  is selected, the picture with the correct height to width ratio will be selected. Whether aspect can be switched or not depends on the disc. Please refer to the information written on the disc's jacket etc.

For discs where aspect selection is not possible, make the screen adjustment using the TV's controls.

Note

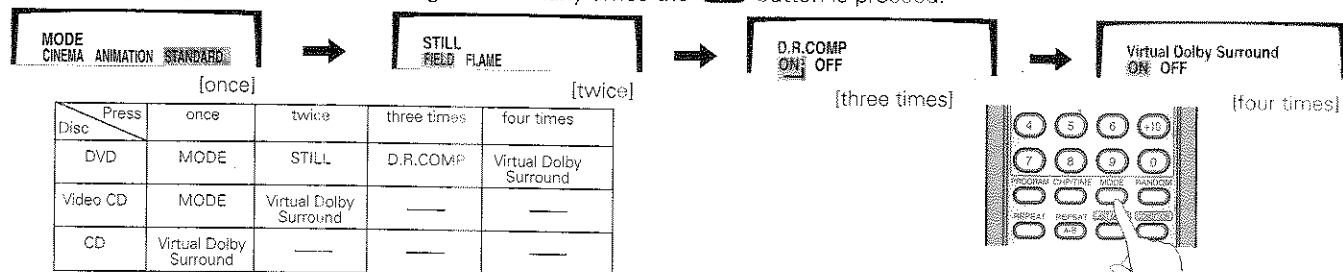
- ◆ When there is a power outage or you disconnect the player from the wall outlet while the power is ON, settings are cleared. If you do disconnect the power cord, be sure to turn the display window's "— OFF —" display off with the player's POWER button or the remote control's power button.

Tip

- The width-to-height ratio of conventional TVs is 4:3, while the width-to-height ratio of wide screen and Hi-Vision TVs is 16:9. This width-to-height ratio is called the aspect ratio.

Changing Picture and Sound Quality.

The setting changes as follows according to how many times the **MODE** button is pressed.

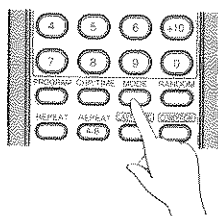


Changing picture quality and displays (Cinema Mode/Animation Mode)



This lets you select the ideal picture quality for watching regular movies, animation movies, and other video material.

1. During playback, press **MODE** to select "MODE".



CINEMA

Picture quality: Provides a sharp, clear black picture for images with high contrast.

ANIMATION

Picture quality: Provides images with bright, clear colors.

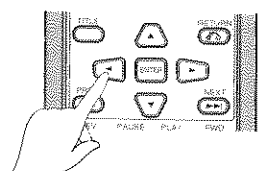
STANDARD

Returns you to normal picture quality and display.

Note

- ◆ Depending on the contents of the software and the TV used, the picture may be unclear. In this case, switch to the Standard mode.

2. Select the desired mode with the **◀ ▶** buttons.

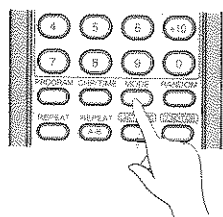


Changing the still picture condition



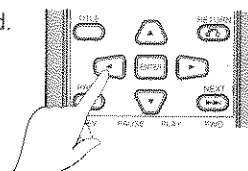
There may be picture shake during the still picture mode. In this case, setting the pause mode to the field mode will eliminate the problem.

1. During playback, press **MODE** to select "STILL".



2. Select the FIELD or FRAME with the **◀ ▶** buttons.

Changes each time pressed.



Changing Picture Quality and Displays

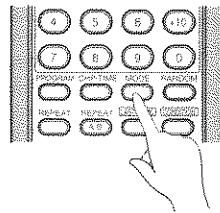
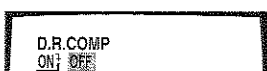
Memorizing Settings for Often Viewed DVDs

Changing the picture quality (D.R.COMP)

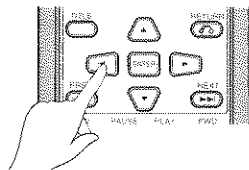


D.R.COMP stands for Dynamic Range Compression. DVDs provide sound with wide dynamic range. Switch D.R.COMP ON if you find dialog or other sounds hard to hear when listening on your stereo system or TV.

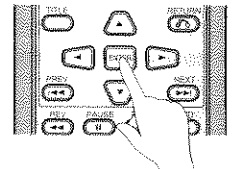
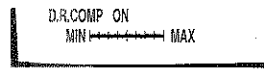
1. During playback, press the **MODE** button to select "D.R. COMP".



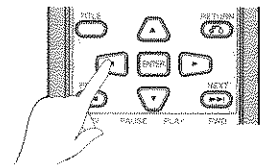
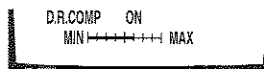
2. Select "ON" or "OFF" with the **LEFT** or **RIGHT** buttons.



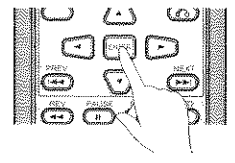
3. Press **ENTER** when "VARIABLE" is selected.



4. Adjust the amount of change with the **LEFT** or **RIGHT** buttons.



5. Press **ENTER**.



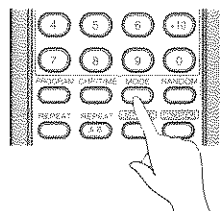
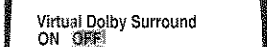
If **UP** or **DOWN** is pressed during step 4, change will be in the order of "ON" or "OFF".

Selecting a theater like 3-dimensional sound image (Virtual Dolby Surround **TruSurround** with SRS)

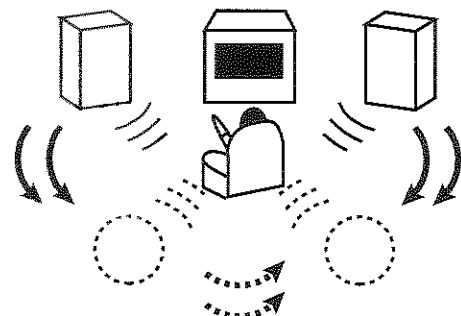
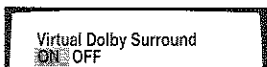


This feature only operates for audio output from the AUDIO OUT jack. It will not operate for audio output from the DIGITAL OUT jacks.

1. During playback, press the **MODE** button to select "Virtual Dolby Surround".



2. Select "ON" with the **LEFT** or **RIGHT** button.



SRS Labs, Inc.'s TruSurround system

[**TruSurround** with SRS] is adopted for use on this unit.

TruSurround is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries.

Changing Picture Quality and Displays
Memorizing Settings for Often Viewed DVDs

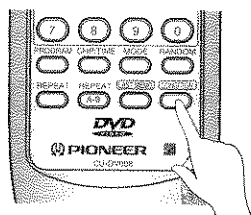


Memorizing Settings for Often Viewed DVDs (Condition Memory)

You can memorize details for the following five settings.
Once memorized, Condition Memory will automatically recall the settings.

Multi-Aspect (page 24)
Cinema mode/Animation mode (page 26)
Multi-language (page 29)
Multi-language subtitles (page 30)
Position (page 39)

Press  during playback.



- "CONDITION" will appear on the TV screen.

Note


- ◆ When there is a power outage or you disconnect the player from the wall outlet while the power is ON, settings are cleared. If you do disconnect the power cord, be sure to turn the display window's "— OFF —" display off with the player's POWER button or the remote control's power button.

You can store settings for DVDs you often watch in memory. Settings remain in memory even if you remove the disc from the player, or switch power to the player OFF. If you load a disc that has its settings memorized, the Condition indicator lights. When you start playing the disc, the memorized settings are automatically recalled.


When a disc that has memorized settings is loaded...

"CONDITION" will appear on the screen, and the previously memorized settings will be selected.

Erasing the recorded contents

Load the disc that has memorized settings, and press the  button during "CONDITION" has been displayed. The disc's recorded data will be erased.

Tip

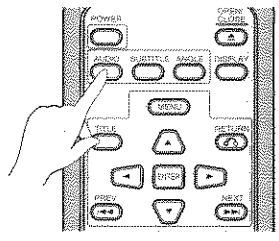
- Settings are stored in memory for use any time.
- You can store settings for up to 30 DVDs in memory. If you memorize settings for more than 30 DVDs, previously memorized settings are erased in order from the least recently memorized settings. After that, if you try to call up these previously memorized settings, you will get the latest settings that have taken their place.
- To make changes to Aspect ratio, Cinema mode/Animation mode, subtitle language, and language settings, press  during playback.
- Switching of the multi-audio mode etc., is automatic on some discs.



Selecting Languages (Multi-Language)

Dolby Digital, PCM, and other audio data is recorded on DVDs in a number of languages, letting you choose the desired language.

1. Press during playback.



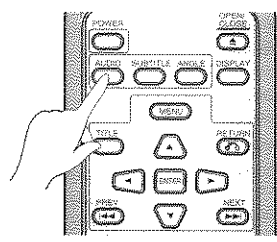
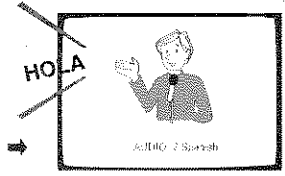
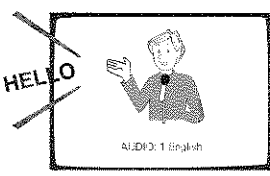
Tips

- For some titles, selection can be made using the menu. In this case press the button while the indicator is displayed, display the menu screen and make your selection.

Note

- You cannot switch languages if there is only one language recorded on the disc.
- Switching the audio language may not be possible with some titles. In this case, the mark will be displayed.

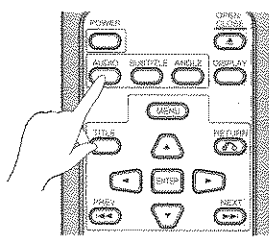
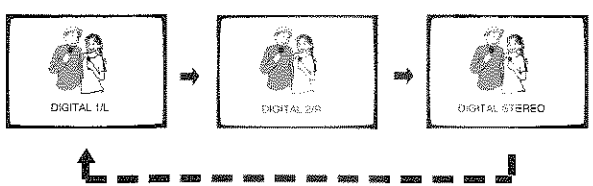
2. Press to select the desired language.



Setting

Changing Audio Type

1. Press during playback.



- Audio type changes each time you press the button.

Note

- You cannot switch audio type with digital output (optical, coaxial).

Tips

- With karaoke and other software, set the appropriate audio type for singing and accompaniment after referring to information on the disc jacket or accompanying material.

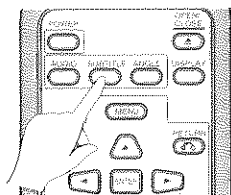
Selecting Languages
Changing Audio Type



Selecting a Subtitle Language (Multi-Language Subtitles)

You can select a desired subtitle language with DVDs that have subtitle data in multiple languages recorded on them.

- 1.** Press **SUBTITLE** during playback.



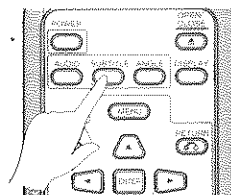
Note

- ◆ The subtitle language can not be switched if the subtitle language is not recorded, or if only one language is recorded.
- ◆ Switching the subtitle language may not be possible with some titles. In this case, the mark will be displayed.

Tip

- To clear subtitles during playback, press **C** after first pressing **SUBTITLE**. You can also clear subtitles by selecting OFF in the subtitle menu display.
- Subtitles can be cleared by selecting LAN. SETUP from the INITIAL menu, and setting SUBTITLE to "OFF" (refer to pages 38 and 39).
- For some titles, selection can be made using the menu. In this case press the **MENU** button while the indicator is displayed, display the menu screen and make your selection.

- 2.** Press **SUBTITLE** to select the desired language.



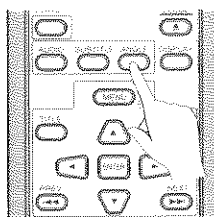
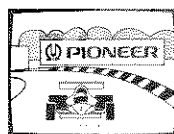
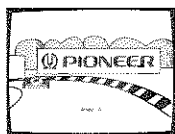
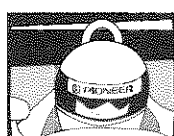
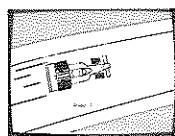
- You can also make your selection from a menu.



Viewing from a Desired Camera Angle (Multi-Angle)

With DVDs featuring recordings of images shot from different angles, you can choose a desired viewing angle.

- 1.** Press **ANGLE** during playback.



- The camera angle changes each time you press the button.

To check whether or not the disc is recorded with angles:

The jacket of discs that are recorded with angles will be marked with . Also, on this unit, when locations on discs that are recorded with angles are played back, the mark can be displayed.

Angle mark don't display setup

1. Press **MENU** during the stop mode.
2. Press the **3** number button.
 - The initial set-up menu will appear.
3. Press the **1** number button.
 - The OSD SETUP screen will appear.
4. Press the **4** number button.
 - The ANGLE menu will appear.
5. Press the **11** number button.
 - Menu setup is finished.

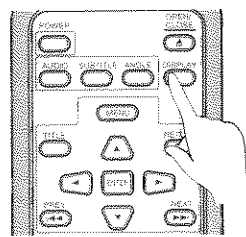
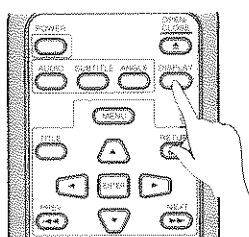
Tip

- You can use the Multi-Angle function only with discs featuring recordings of images shot from different camera angles.
- During Multi-Angle playback, the Angle indicator on the player lights.
- For some titles, selection can be made using the menu. In this case press the **MENU** button while the indicator is displayed, display the menu screen and make your selection.

Viewing Disc Information

Press  during playback.

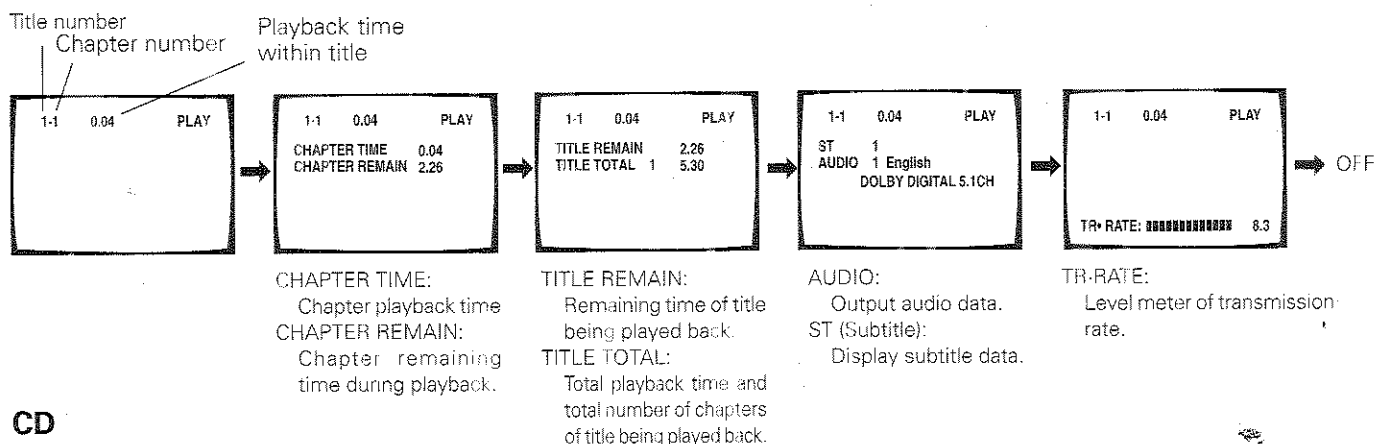
Press  in the STOP mode.



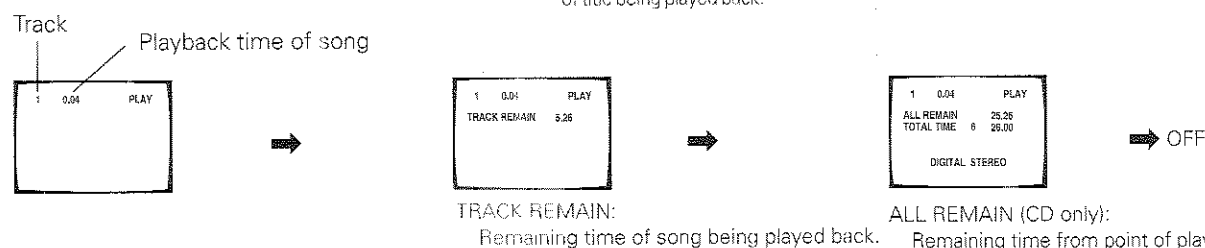
- The display will change as follows each time the button is pressed.
Some displays may not be displayed depending on the title.

- Disc information is displayed.

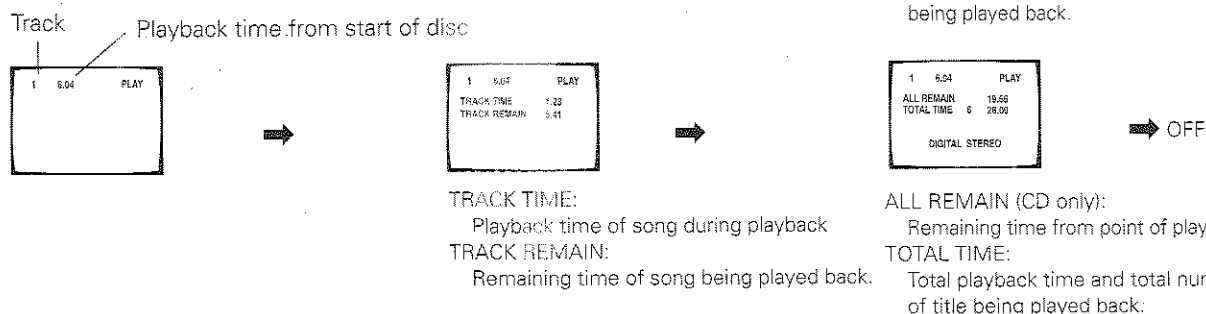
DVD



CD



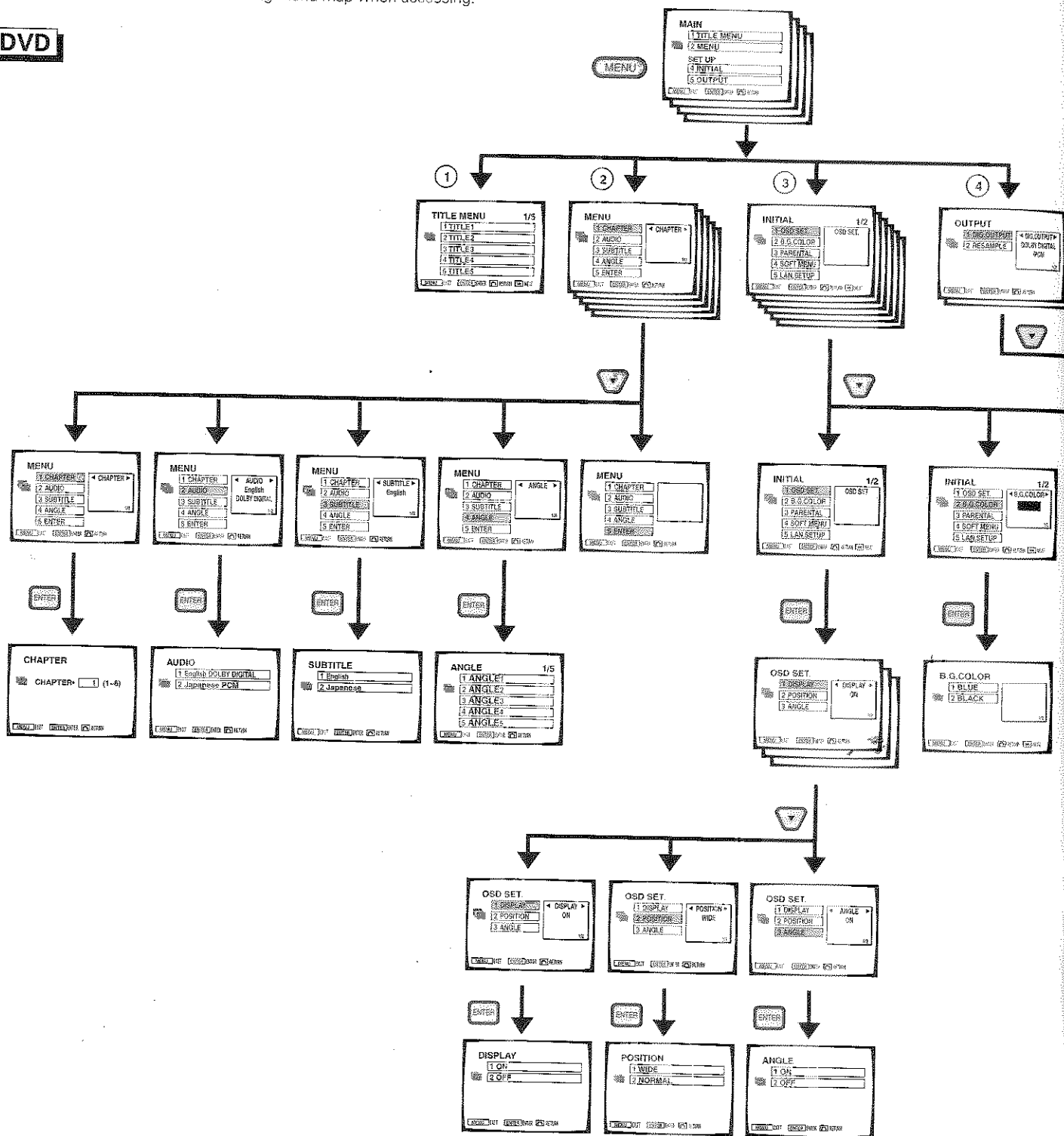
Video CD



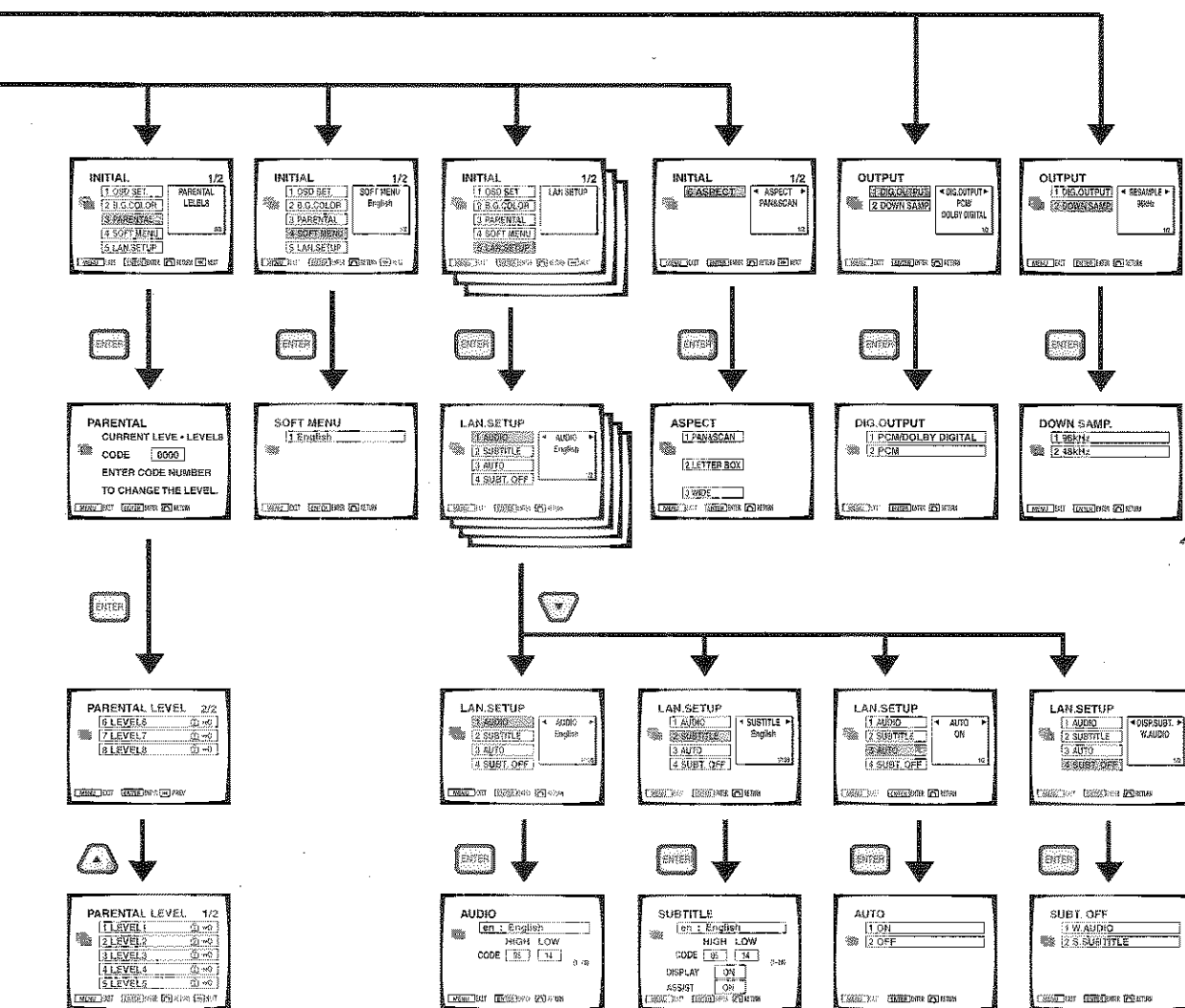
Outline of GUI (Graphical User Interface) Operation

On this player, various settings can be selected while watching menu screens and using the remote control unit. Here we will explain how to access menu screens. Because menu screen access differs according to the type of disc being used, or the playback mode (stop mode etc.), refer to the following menu map when accessing.

DVD

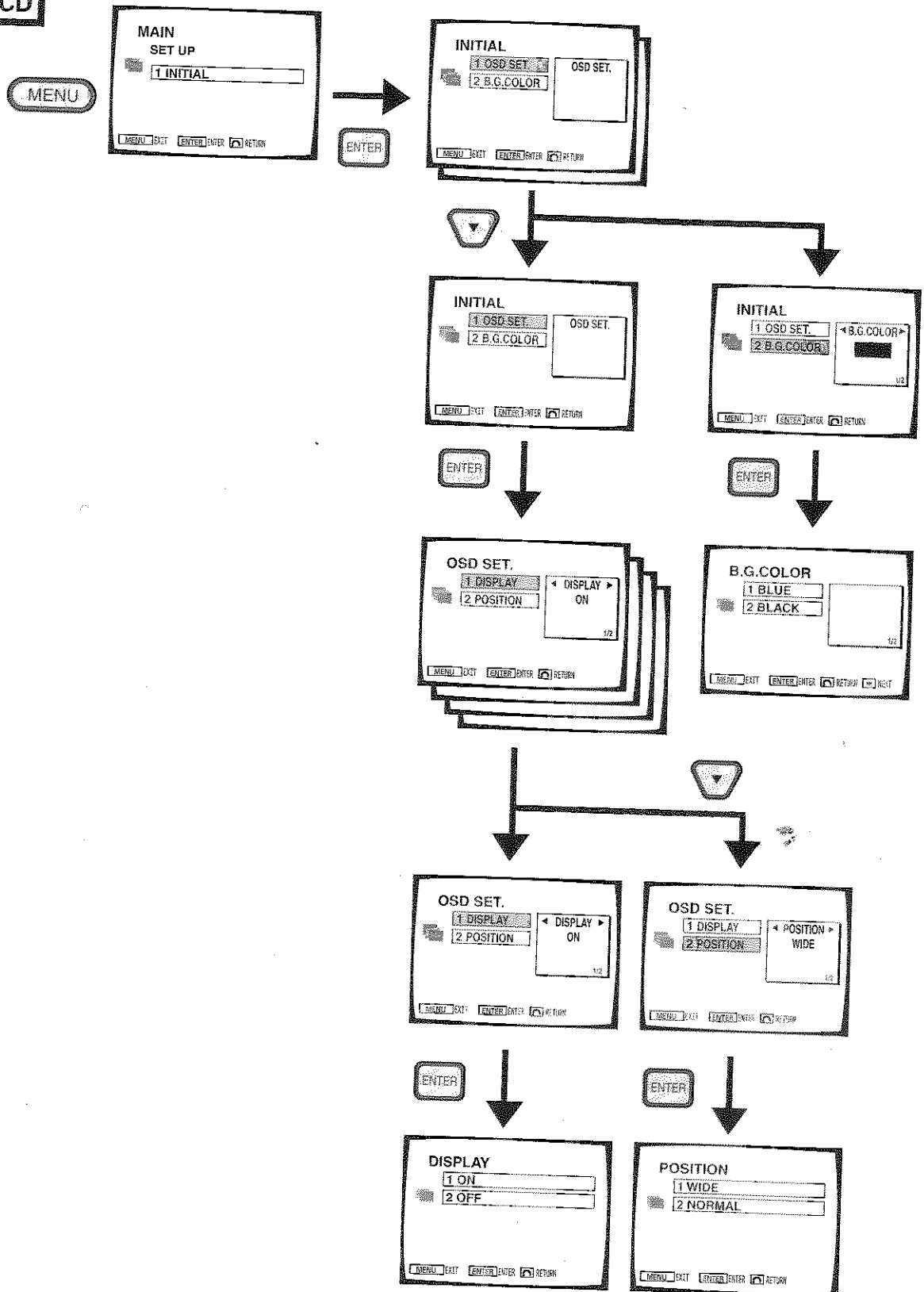


Press the button to return to the screen that was displayed before was pressed.











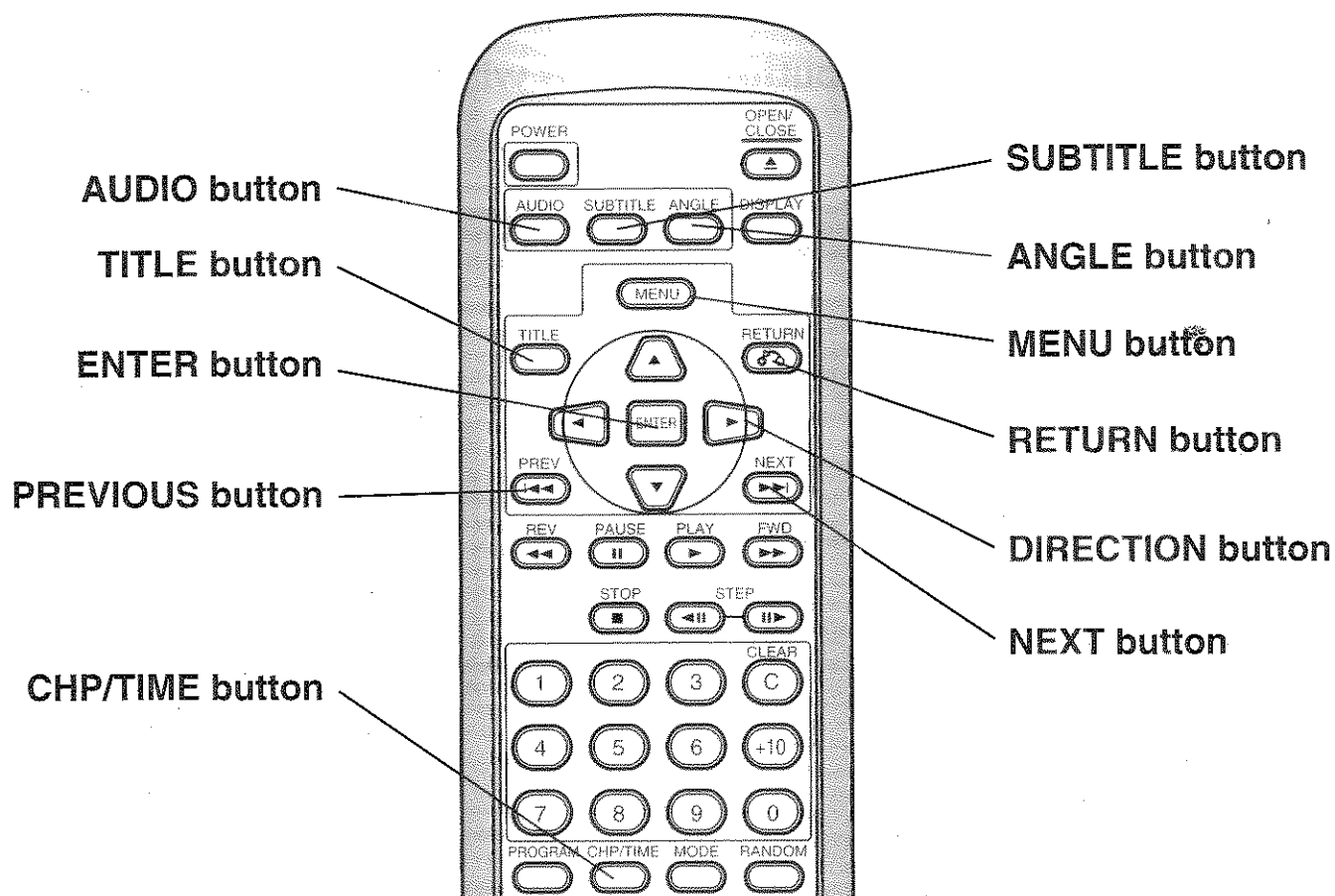
Outline of GUI (Graphical User Interface) Operation

CD, Video CD



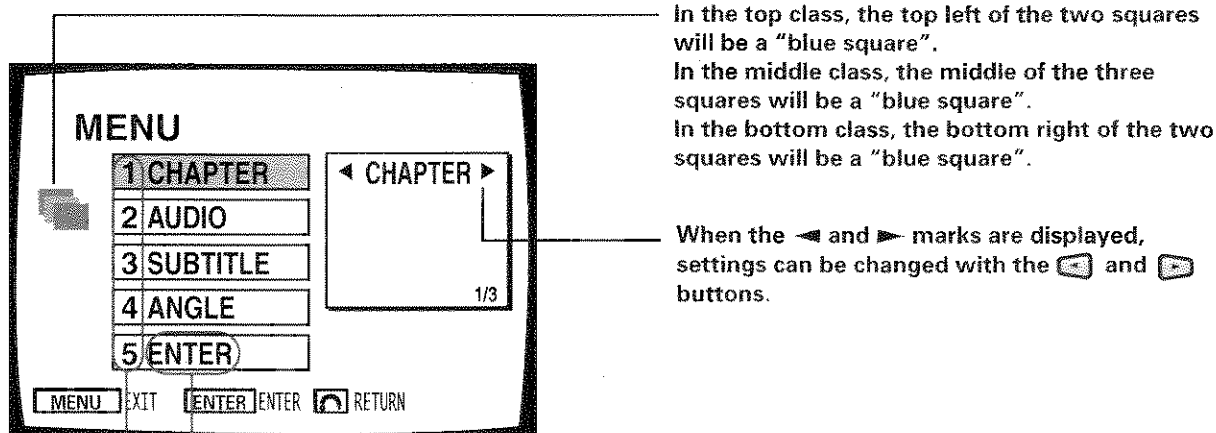
Button operation within each menu

Button name	Button shape	Operation
MENU button		To leave the menu screen (settings are invalidated)
RETURN button		To return one menu screen back (settings will be memorized) However, search is invalidated.
Number buttons		Selection and conclusion (In the set up menu, some items only operate for selection.)
Direction buttons		Selection
ENTER button		Setting and implementation (playback mode is engaged after title or chapter change)
PREVIOUS button		To go to the previous page
NEXT button		To go to the next page
Direct buttons		To go to menus (setting selected before moving to a new menu will be invalidated)



Example of screen displays and operation

Ex. 1: Display contents and button functions within the Menu screen



Memorizes any changes that have been made to the above settings.

Item numbers

Selecting an item number by pressing the **number buttons** or using the ▲▼ buttons and then pressing the **ENTER button** will display the menu screen for that item number. Selecting item "5 ENTER" however, will memorize the changed settings and quit the mode.

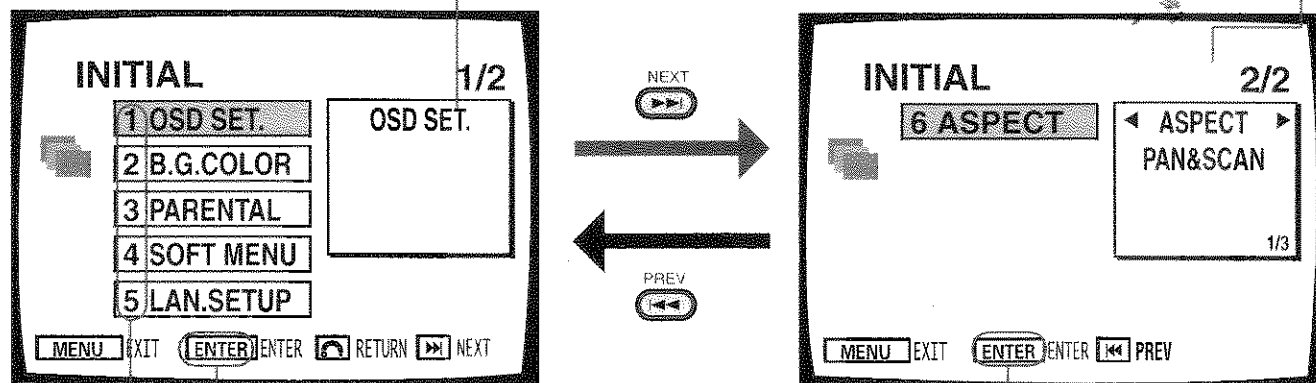
Ex. 2: Display contents and button functions within the Set-up menu screen

Current set-up condition

Item numbers are selected with the ◀ ▶ buttons, and settings are changed with the ▲▼ buttons.

Current set-up condition

When selection is made with the number buttons or the ▲▼ buttons, pressing the ENTER button will display the selection screen selected.



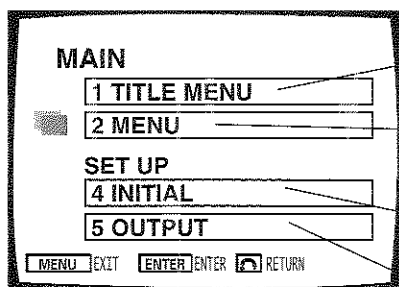
Selecting this will memorize changed settings and quit the mode.

Selection item numbers

Selection can be made with the number buttons. Selecting "Background color", "Parental level", "Software menu" or "Language setting" will display the selected screen. Also, changing the settings with the ▲▼ buttons and pressing the **ENTER button** will memorize the settings and quit the mode.

About the main menu

The main menu is the menu used for selecting the Title menu screen, Menu screen and Set up screen.



In the Title menu screen:

Titles can be selected and played back. (Title search)

In the Menu screen:

Chapters (songs), subtitles, audio and angles within a title can be selected.

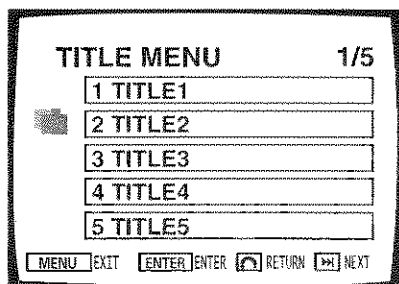
In the Initial setup screen:

The various functions of this player can be set up using the screen displays.

In the Output setup screen:

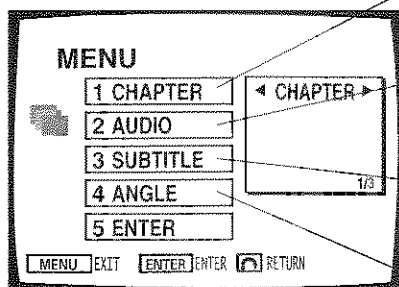
Audio to be output from the digital output terminal can be selected.

About the title menu



Titles can be selected and played back. This selection screen is the same as the one in "Direct Search with Title Numbers" on page 17.

Menu screen contents



To go to the Chapter screen

In the Chapter screen:

One chapter (song) within a title can be selected and played back.

To go to the Audio screen

In the Audio screen:

Audio contents can be selected on discs that include more than one audio language or audio type.

To go to the Subtitle screen

In the Subtitle screen:

Subtitle contents can be selected on discs that include subtitle information.

To go to the Angle screen

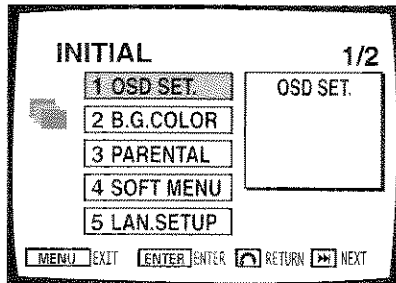
In the Angle screen:

The scene angle that you want can be selected on discs that include scenes that have been filmed from various angles.

Completes the setting of changes to the above items.

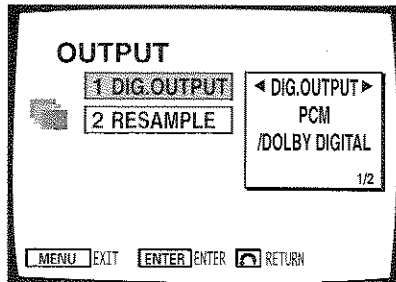
Changing Settings

About the initial setup screen




Used when changing various settings. The items and setting details are listed on the next page.

About the output setup screen





Used when selecting the audio to be output from the output terminal. Set according to the amplifier being used. Items and setting details are listed in detail on the next page.



Item Settings

Class	Item	Details	Settings	
			Initial settings (factory settings at the time of shipment)	
INITIAL	OSD. SET	Display	ON Operation displays appear.	OFF Operation displays do not appear.
		Position	Normal When using a conventional (4:3) TV	Wide When using a wide screen TV (Not for menu displays.)
		Angle	ON  is displayed.	OFF Not displayed.
		Background Color	BLUE	BLACK
		Parental Level	LEVEL 8	Level 1-8 Variable
		Software Menu	English	Select the desired menu language.
LAN. SETUP	AUDIO	The audio language that you normally listen to can be selected from the various audio languages on a disc. Even when the audio language is changed during playback, the language selected at this setting will be selected when the disc is replaced.	English	Select from 136 different languages. Selection method is explained on page 41.
	SUBTITLE	The subtitle language that you will normally display can be selected from the subtitles on a disc. Even when the subtitle language is changed during playback, the language selected at this setting will be selected when the disc is replaced.	English	Select from 136 different languages. Selection method is explained on page 41.

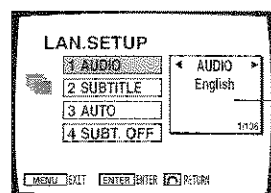
Item Settings

Class	Item	Details	Settings	
			Initial settings (factory settings at the time of shipment)	
INITIAL	LAN. SET UP			
	AUTO	ON AUDIO and SUBTITLE can be set in advance. In the case of foreign movies, the original audio language and English subtitles will be automatically selected. In the case of English language movies, the original audio language (English) will be selected, and subtitles will not be displayed. On some discs, this function may not operate as described in the example. If AUDIO and SUBTITLE differ or DISPLAY and ASS.SUBTIT of the SUBTITLE sets OFF, the setting will be the same as OFF, changing settings during playback using "Selecting Languages" (page 29) and "Selecting Subtitle Language" (page 30) is possible. OFF Regular subtitle and audio settings will be as selected.	ON	OFF
	SUBT.OFF	The subtitle which is displayed by discs can be selected, when the subtitle is set to "OFF". S. SUBTITLE: The selected audio language will be selected. W. AUDIO: The selected subtitle language will be selected.	S.SUBTITLE	W.AUDIO
	Multi-Aspect	When viewing software recorded in the wide mode, the image's height to width ratio can be switched to match the TV being used.	WIDE	PAN&SCAN LETTER BOX
OUTPUT	Digital Output	This player lets you change the audio output via an optical digital output jack and PCM/  of the coaxial digital output jack. DVDs conform to both Dolby Digital (three-dimensional sound for movies etc.) and Linear PCM (digital sound with higher fidelity than CDs) audio standards.	PCM /DOLBY DIGITAL Automatically selects Linear PCM or Dolby Digital depending on the audio signal (when an amp that includes a Dolby digital (AC-3) decoder is used).	PCM Provides Linear PCM sound with both Dolby Digital and Linear PCM sources (when a regular amp or Dolby Pro logic amp is used).
	Re-sampling	96kHz: PCM audio discs with a 96kHz sampling frequency can be played back at the 96kHz high quality sound setting. 48kHz discs will be played back at 48kHz. 48kHz: Discs with a 96kHz sampling frequency can be played back at a compressed 48kHz with this setting. 48kHz discs will be played back at 48kHz. ● When the audio sampling frequency recorded on the disc is set as desired, output will also be switched between analog/digital output at the same time. ● Because of the DVD format, when the 96kHz setting is selected for a disc that is copy protected, the signal will not be output from the digital output terminal.	96kHz	 48kHz

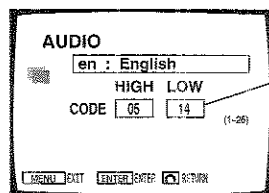
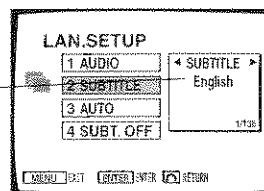
Returning changed settings to the initial settings (initialization)...

First make sure the power is turned off. With the power off, while pressing the  button, press the  button.

How to Set Basic Audio and Subtitles

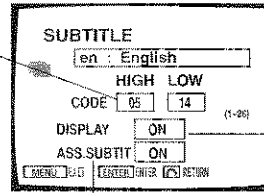


Changes in order when the remote control's or button is pressed.



Referring to the input codes (high order, low order) on the following language code list, use the remote control's number buttons (For selection of numbers above 10, use the +10 button) to select the number that corresponds to the language that you want to select.

- When the auto setting is ON (page 40), because auto setting is given priority, the English audio and subtitles may differ from the language set for the basic audio and basic subtitles.



After selecting this display with the remote control's or button, display ON and display OFF can be selected with the remote control's or button.

Some discs provide subtitles offering explanations of scenes for the hard of hearing. Switching "ASS.SUBTIT" ON assures these subtitles are displayed from the beginning.

Language code list

Language	Language-code	Input-code (high-order)	Input-code (low-order)
Japanese	ja	10	01
English	en	05	14
French	fr	06	18
German	de	04	05
Italian	es	05	19
Spanish	it	09	20
Dutch	nl	14	12
Russian	ru	18	21
Chinese	zh	26	08
Korean	ko	11	15
Greek	el	05	12
Afar	aa	01	01
Abkhazian	ab	01	02
Afrikaans	af	01	06
Amharic	am	01	13
Arabic	ar	01	18
Assamese	as	01	19
Aymara	ay	01	25
Azerbaijani	az	01	26
Bashkir	ba	02	01
Belorussian	be	02	05
Bulgarian	bg	02	07
Bihari	bh	02	08
Bislama	bi	02	09
Bengali, Bangla	bn	02	14
Tibetan	bo	02	15

Language	Language-code	Input-code (high-order)	Input-code (low-order)
Breton	br	02	18
Catalan	ca	03	01
Corsican	co	03	15
Czech	cs	03	19
Welsh	cy	03	25
Danish	da	04	01
Bhutani	dz	04	26
Esperanto	eo	05	15
Estonian	et	05	20
Basque	eu	05	21
Persian	fa	06	01
Finnish	fi	06	09
Fiji	fj	06	10
Faroese	fo	06	15
Frisian	fy	06	25
Irish	ga	07	01
Scottish Gaelic	gd	07	04
Galician	gl	07	12
Guarani	gn	07	14
Gujarati	gu	07	21
Hausa	ha	08	01
Hindi	hi	08	09
Croatian	hr	08	18
Hungarian	hu	08	21
Armenian	hy	08	25
Interlingua	ia	09	01

How to Set Basic Audio and Subtitles

Language	Language-code	Input-code (high-order)	Input-code (low-order)
Interlingue	ie	09	05
Inupiak	ik	09	11
Indonesian	in	09	14
Icelandic	is	09	19
Hebrew	iw	09	23
Yiddish	ji	10	09
Javanese	jw	10	23
Georgian	ka	11	01
Kazakh	kk	11	11
Greenlandic	kl	11	12
Cambodian	km	11	13
Kannada	kn	11	14
Kashmiri	ks	11	19
Kurdish	ku	11	21
Kirghiz	ky	11	25
Latin	la	12	01
Lingala	ln	12	14
Laotian	lo	12	05
Lithuanian	lt	12	20
Latvian, Lettish	lv	12	22
Malagasy	mg	13	07
Maori	mi	13	09
Macedonian	mk	13	11
Malayalam	ml	13	12
Mongolian	mn	13	14
Moldavian	mo	13	15
Marathi	mr	13	18
Malay	ms	13	19
Maltese	mt	13	20
Burmese	my	13	25
Nauru	na	14	01
Nepali	ne	14	05
Norwegian	no	14	15
Occitan	oc	15	03
(Afan) Oromo	om	15	13
Oriya	or	15	18
Panjabi	pa	16	01
Polish	pl	16	12
Pashto, Pushto	ps	16	19
Portuguese	pt	16	20
Quechua	qu	17	21
Rhaeto-Romance	rm	18	13
Kirundi	rn	18	14

Language	Language-code	Input-code (high-order)	Input-code (low-order)
Rumanian	ro	18	15
Kinyarwanda	rw	18	23
Sanskrit	sa	19	01
Sindhi	sd	19	04
Sango	sg	19	07
Serbo-Croatian	sh	19	08
Singhaiese	si	19	09
Slovak	sk	19	11
Slovenian	sl	19	12
Samoa	sm	19	13
Shona	sn	19	14
Somali	so	19	15
Albanian	sq	19	17
Serbian	sr	19	18
Siswati	ss	19	19
Sesotho	st	19	20
Sundanese	su	19	21
Swedish	sv	19	22
Swahili	sw	19	23
Tamil	ta	20	01
Telugu	te	20	05
Tajik	tg	20	07
Thai	th	20	08
Tigrinya	ti	20	09
Turkmen	tk	20	11
Tagalog	tl	20	12
Setswana	tn	20	14
Tongan	to	20	15
Turkish	tr	20	18
Tsonga	ts	20	19
Tatar	tt	20	20
Twi	tw	20	23
Ukrainian	uk	21	11
Urdu	ur	21	18
Uzbek	uz	21	26
Vietnamese	vi	22	09
Volapük	vo	22	15
Wolof	wo	23	15
Xhosa	xh	24	08
Yoruba	yo	25	15
Zulu	zu	26	21

Set-Up

Connecting the Player

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Connecting the Player

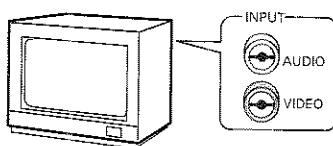
Precautions when connecting the player

This player's Analog copy protect technology is copy guarded. If you connect the player to a TV via a VCR, or record and playback the contents of a disc with a VCR, the playback picture may not be normal.

Select one of the following ways to connect the player to your TV.

Connection example 1.

To a TV with video input



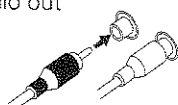
If your TV has a video input, and it is available for use, this is the easiest way to hook up the player.

Video out

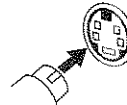


- Connect plugs to the terminals that match the plug's color (white, red, yellow).

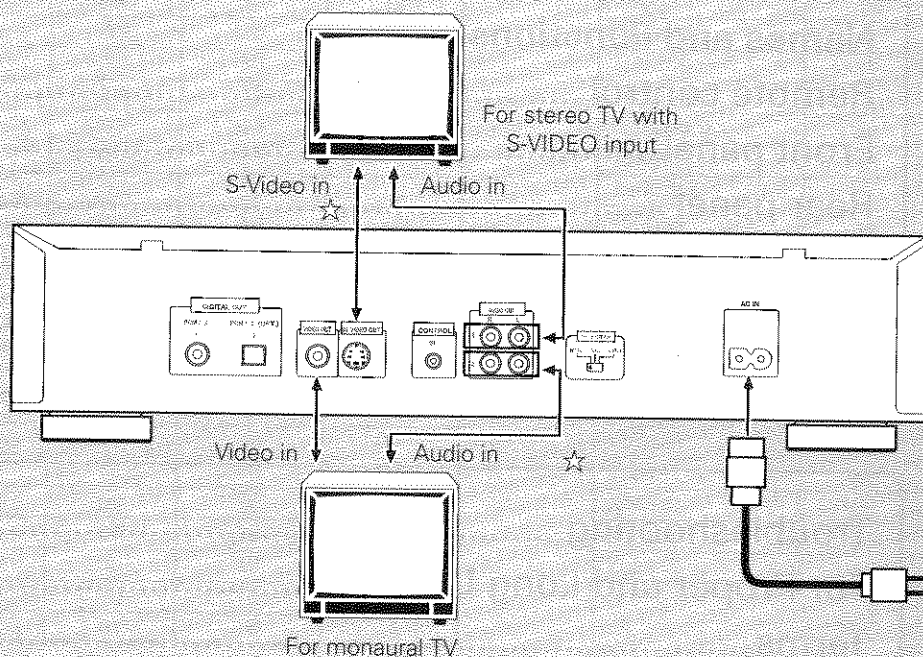
Audio out



S-Video out



- Connect the TV with S-VIDEO terminal to the S VIDEO OUT (1 or 2) terminal of this player.



- Please also refer to the manual for the TV (monitor TV or VCR) that you are making connection to.

Note

☆ Cables can be found at your local audio/video dealer.

Connection example 2.

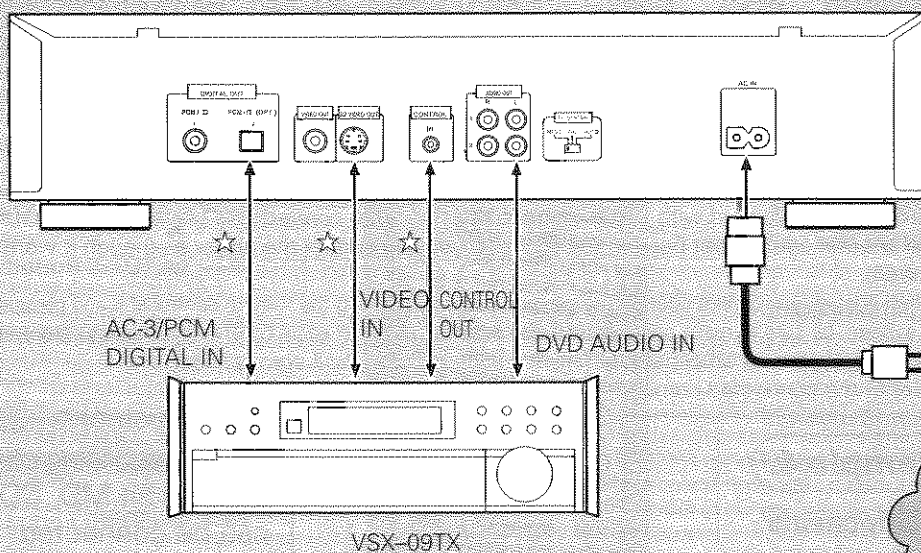
AV receiver with digital input for Dolby Digital (AC-3).



When connecting the player to an amp with Dolby Digital (AC-3) inputs.

*Make this connection when using this unit with Pioneer's VSX-07TX, VSX-09TX AV receiver.

- Connect this unit's digital output PCM/ jack to the Dolby Digital (AC-3) input jack of a Dolby Digital compatible amplifier.
- Select whether or not to use the coaxial digital output according to the amplifier's input jack.
- Connect this unit's digital output PCM/ (OPT.) output (for LDs) jack to the Dolby digital (AC-3) input jack of a Dolby digital compatible amplifier.



- The digital output setting is set to 96KHz. Digital output is prohibited for some discs.

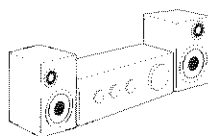
Note

☆ Cables can be found at your local audio/video dealer.

Please set the amplifier's function as follows when playing back a disc on this unit.
DVD playback: DVD
Other discs that can be played back such as a CD etc.: CD

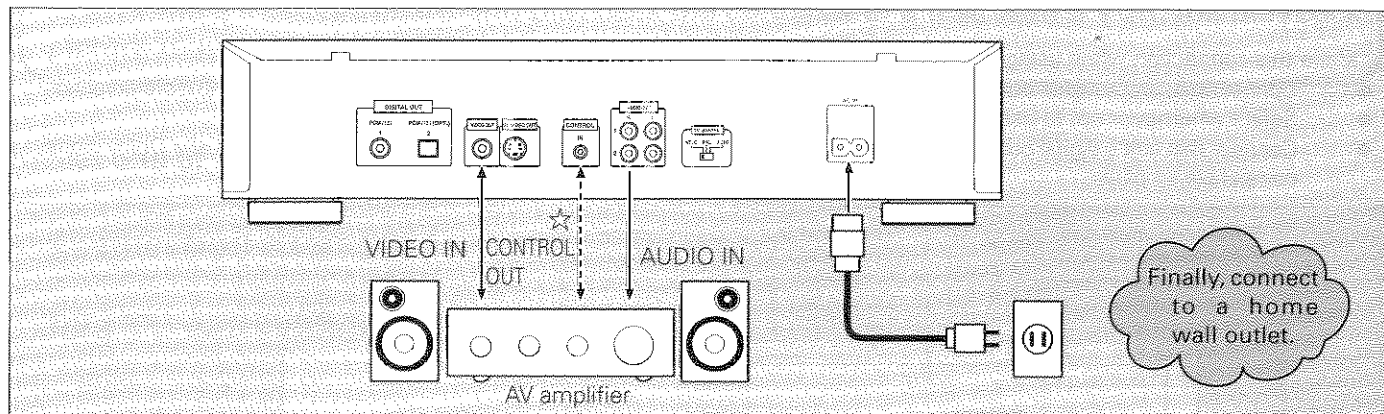
Connection example 3.

AV amp



By connecting to a regular AV amp or stereo amp, you can enjoy playback with improved sound quality.

- Connect this player's audio output jacks to an amp's CD, LD, AUX or other audio input jacks. (Do not connect to PHONO jacks.)
- Connect this player's video output jack to the amp's video input jack.



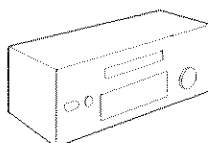
Note

☆ Cables can be found at your local audio/video dealer.

- When connecting to a component bearing the Pioneer mark:
If you use a commercially available cord with a mini plug (no resistance) to connect this player's CONTROL IN jack to the control output jack of another component bearing the mark, you can control the player as though it were a component in a system (system control).
- If you connect for system control, you cannot operate the player directly by pointing the remote control at it and pressing buttons.
- When controlling as a system, be sure to make connection to the amplifier using an audio cord, even when using only digital components.
- Surround sound can be enjoyed with amplifiers that have a built-in Dolby Pro Logic decoder.
- For more details, refer to the connected component's operation manual.

Connection example 4.

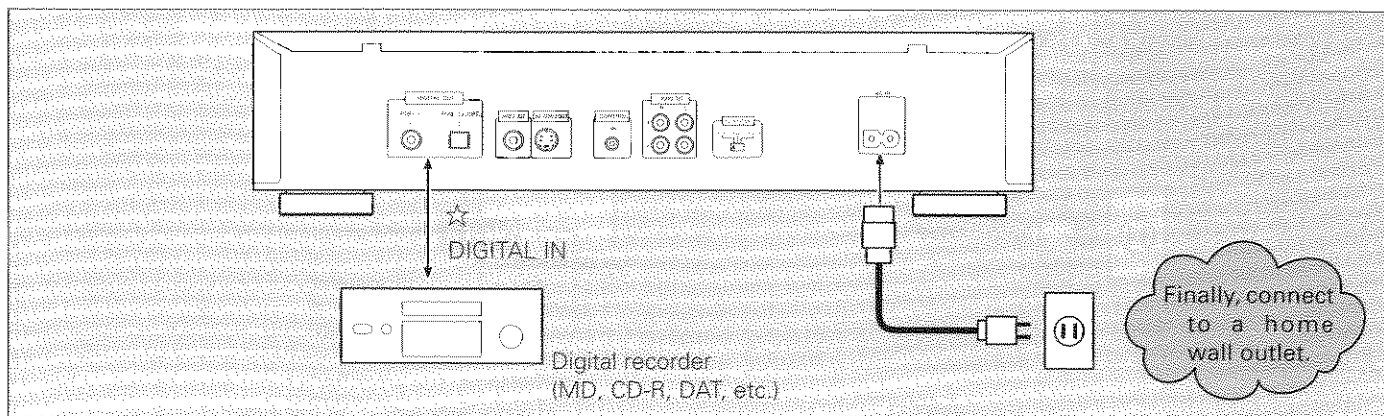
Digital recording components



Digital recording components such as an MD, CD-R or DAT can be connected.

Make either optical digital or digital output (Coaxial) connection.

- For optical digital connection, connect the optical digital input jack to the output jack.
- For coaxial digital connection, connect the digital input jack to the output jack.



Note

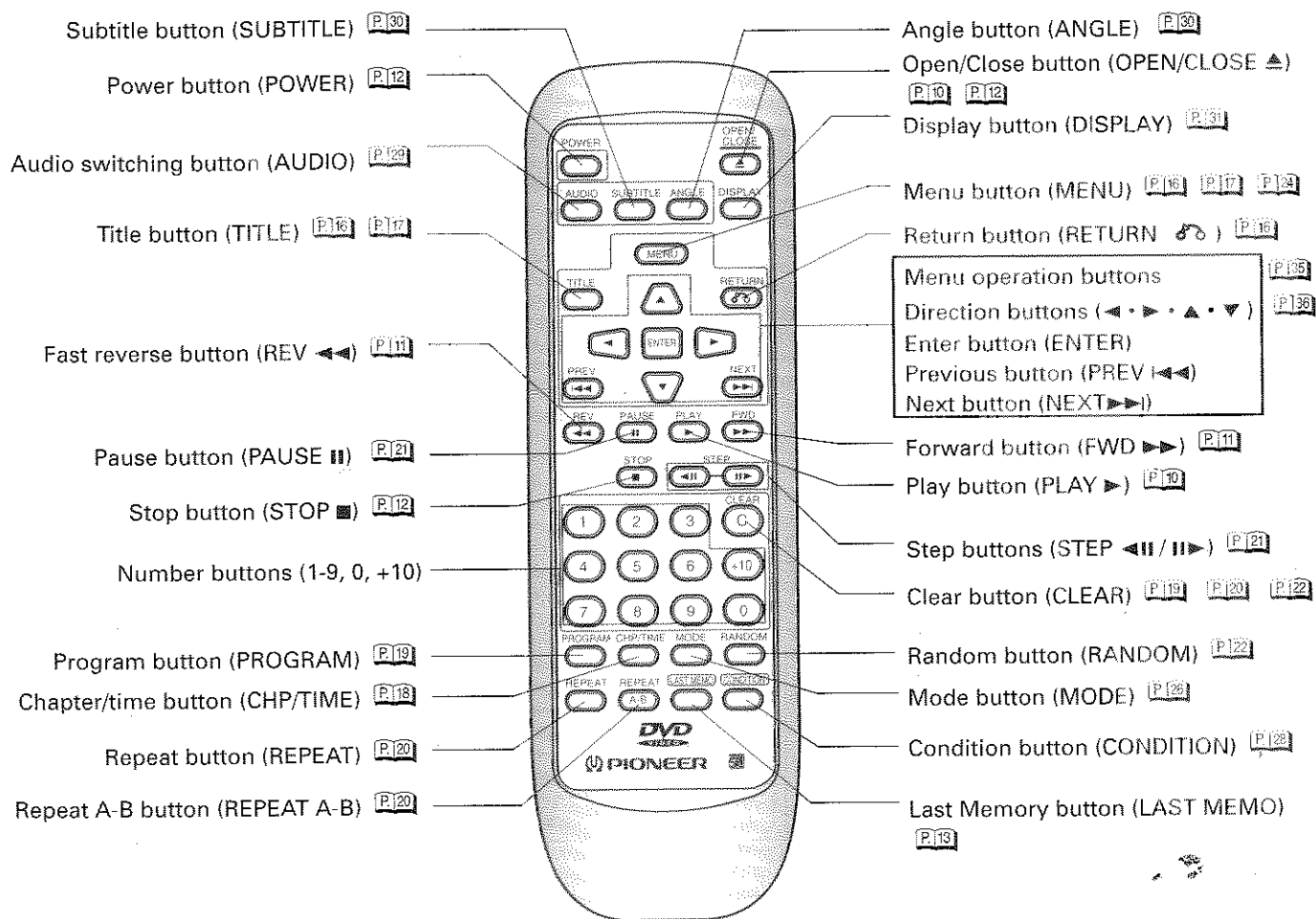
When recording a Dolby digital compatible DVD, set "Digital output" to the PCM setting as explained on page 40. When the DVD is recorded in Dolby Digital (AC-3), noise will be recorded if the setting is left at

PCM/DOLBY DIGITAL

☆ Cables can be found at your local audio/video dealer.

Names and Functions

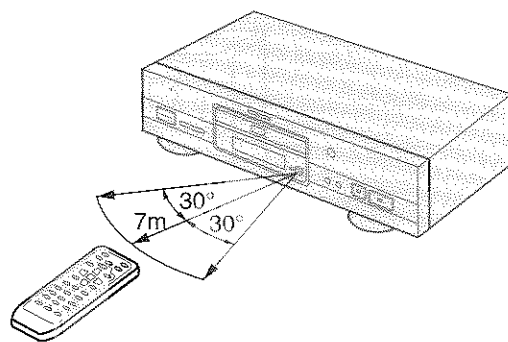
Remote control



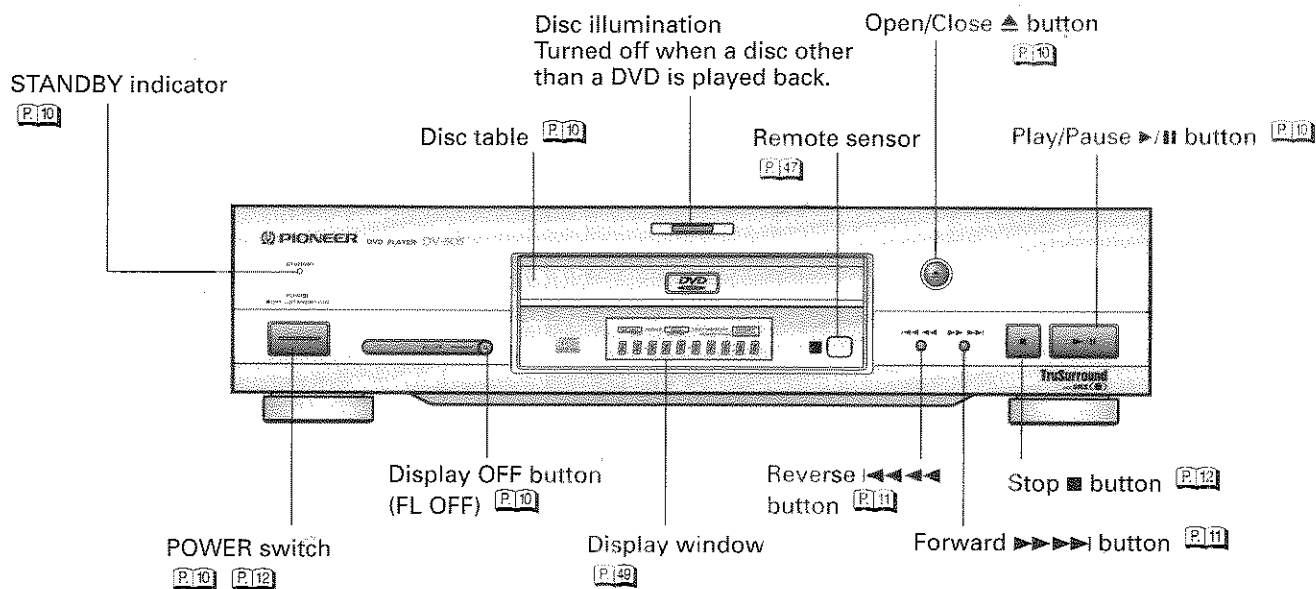
Remote control operation

When operating the remote control, point it at the remote sensor located on the player's front panel. The remote control can be used up to 23 feet (7 m) from the player and within a 30° angle each side of the sensor.

- Exposing the remote sensor to direct sunlight or strong light may cause faulty operation.
- If the CONTROL IN jack on the player's rear panel is connected to another component, point the remote control at that component for operation. Operation is not possible when pointed at this player (page 46).



Front panel



Rear panel

Digital Output Jack (Coaxial)

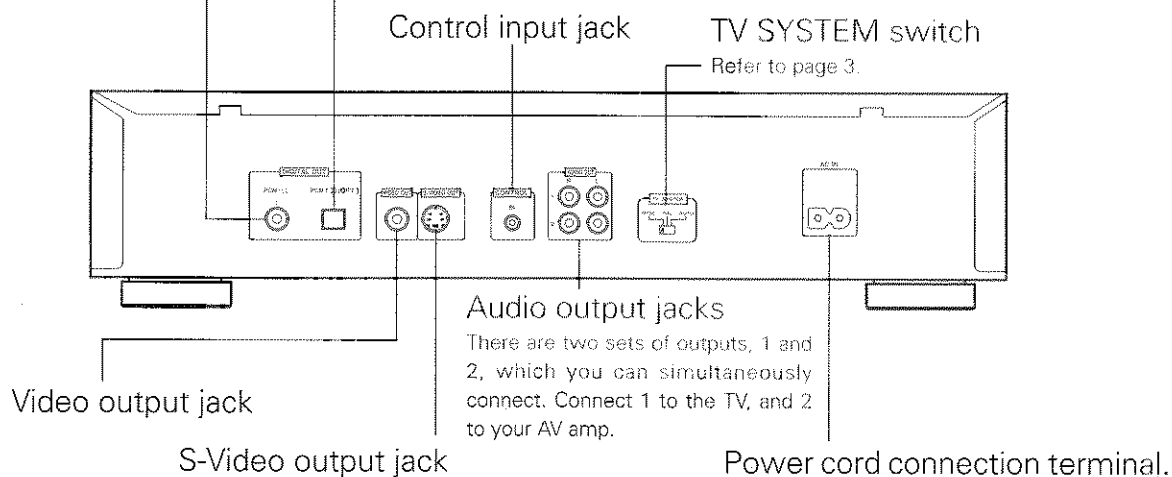
This is used for output of the digital audio signal recorded on CDs and Video CDs. Depending on the components connect this digital output to, noise may be generated.

When connecting to an AC-3 compatible component, use the PCM/ jack. (Refer to the chart on the right)

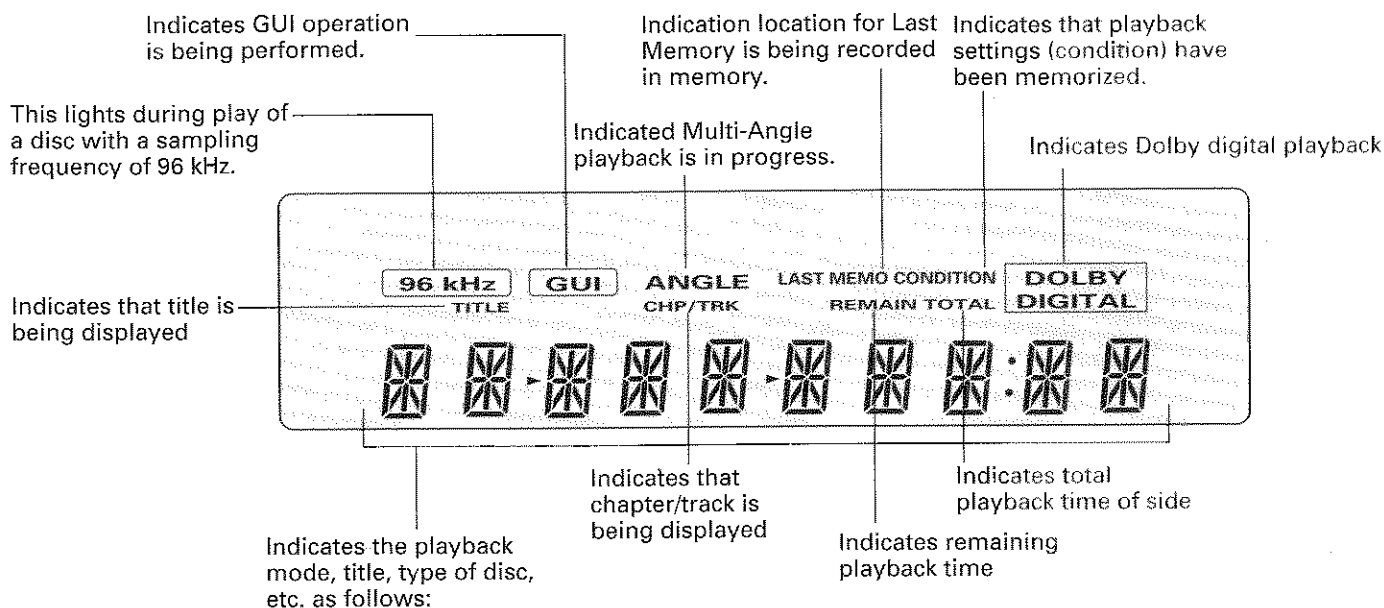
Your amp	Regular AV amp	Coaxial	Connect to the coaxial jack, and select PCM from the menu.
		Optical	Connect to the optical jack, and select PCM from the menu.
	AC-3 compatible amp	Coaxial	Connect to the PCM/ jack, and select PCM/DOLBY DIGITAL from the menu.
		Optical	Connect to the optical jack, and select PCM/DOLBY DIGITAL from the menu.

Optical Digital Output

Audio optical digital output. Switchable between PCM/DOLBY DIGITAL and PCM output.






■ Display window



CD	:Compact disc	R_SID	:When side repeat is selected
DVD	:DVD	REPEAT TTL	:When title repeat is selected
VCD	:Video CD	REPEAT AAL	:When all repeat is selected
PBC PLAY	:Playback control playback on Video CD	REPEAT PGM	:When program repeat is selected
OPEN	:Disc table is opening or is open	PLAY	:Playback
CLOSE	:Disc table is closing	STOP	:Stop
RDM	:Random playback	PAUSE	:Pause
PROGRAM	:Program mode	NO DISC	:No disc
R_TRK	:Repeat mode	-- OFF --	:Power is turned off
R_A	:Start point of 2 point repeat playback	MENU	:Menu mode
R_AB	:2 point repeat playback	TITLE	:Title menu
R_TTL	:Repeat playback of the title	CHAPTER	:Chapter menu
R_CHP	:Repeat playback of the chapter	SUB-TITLE	:Subtitle menu
R_SID	:Disc repeat	SETUP	:Set-up menu
CINEMA	:Cinema mode	AUDIO	:Audio menu
STANDARD	:Standard mode	ANGLE	:Angle menu
REPEAT A	:When memory repeat is selected	COND-MEMO	:Condition memory
REPEAT TRK	:When track repeat is selected	LAST-MEMO	:Last memory
REPEAT CHP	:When chapter repeat is selected		

Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

	Symptom	Possible causes	Reference page
Operation	1. The disc comes back out even when the disc table is closed.	<ul style="list-style-type: none"> • The disc is dirty or warped. • The disc is not placed properly on the disc table. • Region No. does not conform with this unit. 	p.52 p.10
	2. Playback is not possible.	<ul style="list-style-type: none"> • Condensation has formed inside the player. • This player cannot play PAL and SECAM format DVD discs. 	p.10
	3. Picture disturbance during playback.	<ul style="list-style-type: none"> • This player is compatible with Macro-Vision System copy guard. Some discs include a copy prevention signal, and when this type of disc is played back, stripes etc., may appear on some sections of the picture depending on the TV. (This is not a malfunction.) 	
	4. When recorded on a VCR there is disturbance in the playback picture.	<ul style="list-style-type: none"> • This player is compatible with analog copy protect technology copy guard. Some discs include a copy prevention signal and the copy guard system will prevent proper playback. 	
	5.  mark appears on screen.	<ul style="list-style-type: none"> • The selected function does not operate for that disc. 	
	6. Picture playback stops and the operation button can not be used.	<ul style="list-style-type: none"> • First stop the disc (press the  button), then start playback again. 	
Remote control	7. Remote control operation is not possible.	<ul style="list-style-type: none"> • The rear panel control input jacks on the player is being used. • The remote control is too far from the player, or the angle with the remote sensor is too sharp. • The batteries are exhausted. 	
	8. Improper operation of TV set, etc., occurs.	<ul style="list-style-type: none"> • Some TVs that have wireless remote control functions may not operate properly with this remote control. 	 p.8
Audio	9. Audio is not output or is distorted.	<ul style="list-style-type: none"> • The digital output setting is set to 96KHz. Digital output is prohibited for some discs. • The connection plugs are not inserted fully into the terminals or are not connected. • The connection plug or terminal is dirty. • Audio cable connection is wrong. • Connection is made to the stereo amplifier's PHONO input terminal. 	p.44~46
	10. Noticeable difference in DVD and CD volume.	<ul style="list-style-type: none"> • The pause mode is engaged. • Stereo amplifier operation is wrong. (Check input (CD, AUX etc.) selector) • Although you may notice a difference in volume between CDs and DVDs, this is a the result of a difference in disc recording methods. 	

Caution

Abnormal functioning of this unit may be caused by static electricity, or other external interference. To restore normal operation, unplug the AC power cord and then plug it in again.

For Proper and Long Use

■ DO NOT MOVE THE UNIT DURING PLAYBACK

During playback, the disc rotates at high speed. Do NOT lift or move the unit during playback. Doing so may damage the disc.

■ WHEN MOVING THE UNIT

When there is a power outage, the power is turned off during playback, with the POWER switch on the main unit or you disconnect the player from the wall outlet while the power is ON, settings are cleared. Before disconnecting the power cord, press the POWER button on the remote control to enter the unit to standby mode after distinguishing the "-- OFF --" display, then press the POWER switch on the main unit.

■ INSTALLATION

- Select a stable place to the side of a TV set or stereo system to be connected to the unit.
- When using the unit with a stereo system, install the speakers a little bit away from the TV.
- Do NOT install the unit on top of a TV or color monitor. Install the unit away from equipment that may be affected by magnetism, such as a cassette deck.

■ AVOID INSTALLING IN A PLACE THAT IS:

- Exposed to direct sunlight
- Exposed to humidity or where ventilation is poor
- Extremely hot or cold
- Exposed to vibration
- Exposed to dust
- Exposed to oily smoke, steam or heat (for example, a kitchen)

■ DO NOT PLACE AN OBJECT ON TOP

Do NOT place an object on the unit.

■ DO NOT BLOCK VENTS

Do NOT use the player on top of a long-fibered carpet, bed or sofa, and do not cover it with a cloth etc.. This will prevent heat radiation and could result in damage.

■ AVOID HEAT

Do NOT place the unit on equipment generating heat, such as an amplifier.

When installing the unit in a rack, place it on the lowest shelf possible (however, not where it is exposed to dust) and separated from the amplifier to avoid the heat generated by the amplifier or other audio equipment.

■ CAUTION: WHEN PLACING THE UNIT IN A STEREO RACK WITH GLASS DOORS

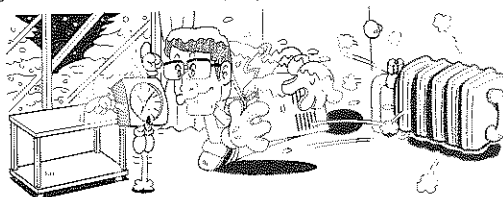
Be sure there is ample space between the unit and the glass doors when opening the disc table using the remote control. If the disc table opens against strong resistance, such as a closed glass door, damage to the unit may result.

■ CONDENSATION

Moisture will form in the operating section of the player if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, player's performance will be impaired.

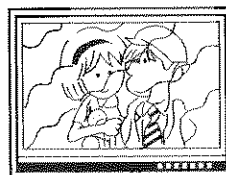
To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the player is exposed to the breeze from an air conditioner. In such cases, change the location of the player.



■ SWITCH THE POWER OFF WHENEVER NOT USING THE UNIT

Depending on the strength of the TV broadcast signal, having the TV set on while the power of the unit is ON may produce stripes on the TV screen. However, this is not a malfunction of this unit or the TV set. In such a case, switch the power of the unit OFF.



POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed in such a way that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

CARE OF DISCS

How to hold discs

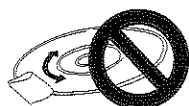
When loading or removing discs, try not to touch their playing surfaces.



Cleaning

Fingerprints or other dirt on the disc may affect sound and picture quality.

To clean your discs, use a soft clean cloth to wipe them. If necessary, moisten a soft cloth with diluted neutral detergent to remove heavy dirt or fingerprints.



Do not wipe in a circular direction
(Concentric scratches in the disc groove tend to cause noise.)

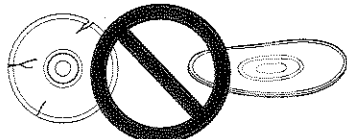


Gently wipe from the inside toward the outer edge.

Discs must not be cleaned with record cleaning sprays, or static prevention sprays, etc. Also do not use volatile liquids such as benzene, or thinner, etc.

NEVER PLAY CRACKED OR WARPED DISCS.

- The disc revolves in the player at high speed when it is played. Never play a cracked, scratched or warped disc. This may damage the player or cause it to malfunction.



After using discs, store them upright

After playing a disc, always remove it from the player and return it to its jacket. Then store it standing upright away from heat and humidity.

- Store discs carefully. If you store discs at an angle, or stacked on top of each other, discs may become warped even when in their jackets.
- Do not leave discs in locations such as the seat of a car, which may become excessively hot.

CAUTION WHEN USING THE DISC

All rights reserved.

Unauthorized public performance, broadcasting or copying is a violation of applicable laws.

CLEANING CARE

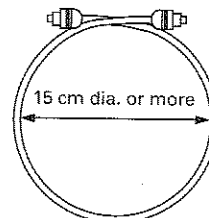
Use a soft, dry cloth for cleaning. For stubborn dirt, soak the cloth in a weak detergent solution; wring well first and wipe. Use a dry cloth to wipe it dry. Do not use any volatile agents such as benzene or paint thinner, as they may damage the surface of the player.

Lens cleaner

The player's pickup lens should not become dirty in normal use, but if for some reason it should malfunction due to soiling, contact your nearest PIONEER authorized service center. Lens cleaners are commercially available, but special care should be exercised in their use since some may cause damage to the lens.

Notes on using the optional optical cable

- Do not route cords around sharp angles. When storing, wind the cords so that they have a diameter of at least 15 cm.
- When connecting, push all the way into the terminal.
- Do not use cords with a length of over 3m.
- If moisture or dust has collected on the plug, wipe it with a soft cloth before connecting.



Never use CD's with special shapes.

CD's with special shapes (heart-shaped CDs, octagonal CDs, etc.) cannot be played on this set.

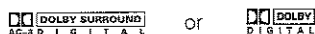
Attempting to do so may damage the set. Do not use such CDs.



Terms

Dolby digital (AC-3)*

The maximum 5.1 channels of audio used in the surround system (Surround Digital) for movie theaters is digital data compressed by AC-3.



For DVD discs, the digital output PCM/□□ jack (coaxial or optical) must be connected to the amplifier or processor's digital input AC-3/PCM jack.

Virtual Dolby Surround** TruSurround

Virtual surround sound can be enjoyed with 2 speakers. Select "ON" in the "Selecting a theater like 3-dimensional sound image (Virtual Dolby Surround)" section on page 27.

PCM

PCM stands for Pulse Code Modulation and is digital audio. The digital audio of CD or DVD discs is PCM.

Title number

Title numbers refer to titles of movies etc. As DVD discs have a large capacity, many movies can be recorded on one disc. For example, when 3 different movies are recorded on a disc, they are divided into TITLE 1, TITLE 2 and TITLE 3. Playback can be operated by selecting the title number.

Chapter number

Chapter numbers are the numbers assigned to sections on a title of the disc, similar to chapters in a book. If the disc includes these numbers, you can locate the section you want very quickly using chapter search and other functions.

Time number

The time number is the playback lapse time of a title in the disc from its beginning. The scene you want to locate can be searched for with the time number using the time number function etc..

TOC

TOC (Table Of Contents) information is data other than audio signal data, recorded at the beginning of a disc. As the name implies, it's like the list of contents in a book, with information such as the number of songs and playback time.

Video CDs

These discs provide MD quality sound, and VHS quality video images. Thanks to MPEG1, the digital signal compression system, a single disc provides up to 74 minutes of continuous digital audio and video. There are also Video CDs with Playback Control (PBC) that let you select playback of desired scenes using menus, and view still images.

* Manufactured under license from Dolby Laboratories, "Dolby", "AC-3" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works, © 1992-1997 Dolby Laboratories, Inc. All right reserved.

** SRS Labs, Inc.'s TruSurround system has been adopted as virtual technology. TruSurround is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. for the USA and other countries. Permission for use of TruSurround technology has been registered through SRS Labs, Inc.

Terms

Playback Control (PBC)

This refers to signals recorded on a Video CD (Version 2.0) enabling playback control.

You can use menus recorded on discs with PBC for easy, interactive search for desired scenes, and playback.

You can also enjoy viewing high-resolution/standard resolution still images.

High-resolution images

If the high-resolution still images are recorded on the Video CD, you can enjoy viewing them with four times the resolution of moving images.

Multi-angle

When you watch regular TV programs you are watching the image filmed through the TV camera. Because of this the picture is displayed on your TV from the view point of the TV camera's position. In a TV studio the image is filmed by many cameras at the same time, and one of those images is selected by the program director and transmitted to your TV. If all the filmed images were transmitted to your TV you would be able to select the camera image you want. Some DVD discs are recorded with the angles of all camera's used for filming and these can be selected using this player. These types of discs are called multi-angle discs.

Aspect

Aspect ratio refers to the length to height ratio of TV screens. The ratio of a normal TV is 4:3, while the ratio of a Hi-vision TV or wide TV is 16:9. This allows you to enjoy a picture with a wider perspective.

Parental level

This function was suggested by parents. Parental level restrictions are restrictions incorporated into scenes that parents do not wish their children to view.

Condition memory

"Condition" refers to the various mode settings etc. On this player, various conditions, such as those set during playback etc. can be memorized. This function allows you to play back the same disc at any time without having to reset the condition settings.

Subtitle

Subtitles are language titles superimposed on movies etc. Up to 32 different subtitle languages can be recorded on a DVD disc. The subtitle function can be used to select the language of your choice.

Regional restriction codes (region number)

Regional restriction codes are built-in to DVD players and DVD discs for each sales region. If the regional code of the DVD player does not match one of the regional codes of the DVD disc, playback will not be possible.

- This unit's region No. is displayed on the rear panel.

Optical digital output

Normally, audio is converted to an electric signal and transmitted through an electric wire from the player to the amplifier etc.. Changing this signal to a digital signal and transmitting it through an optical fibre cable is called optical digital output. (Optical digital input is the side receiving the signal such as the amplifier etc..)

The optical digital output setting can be changed on this unit.

- PCM/DOLBY DIGITAL: Choose this setting when connecting to the Dolby Digital (AC-3) optical digital input of an amp equipped with a Dolby Digital (AC-3) decoder.
- PCM: Choose this setting when connecting to the optical digital input of a regular amp, a Dolby Pro Logic amp etc.

Dynamic range

Dynamic range refers to the difference between the maximum conversion level for transmission/conversion of distortion free signals and noise and/or the minimum level limited by the equipment's characteristics. Decibel units (dB) are used.

Specifications

General

System DVD system, Video CD system and
Compact Disc digital audio system
Laser Semiconductor laser: wavelength 650 nm
Power requirements: AC 110-120 V/220-240 V, 50/60 Hz
Power consumption 21 W
Weight 2.9 kg (6 lb 6 oz)
Dimensions 420 (W) x 284 (D) x 104 (H) mm
(16 ⁹/₁₆ x 11 ³/₁₆ x 4 in.)
(Not including protruding cables, etc.)
Operating temperature +5°C to +35°C (+36°F to +96°F)
Operating humidity 5% to 85% (no condensation)

S-Video Output

Y (luminance) - Output level 1 Vp-p (75Ω)
C (color) - Output level 286 mVp-p (75Ω)
Jacks S-VIDEO jack

Video Output

Output level 1 Vp-p (75Ω when loaded, synchronous negative)
Jacks RCA



Audio Output (2 pairs)

Output level
During audio output 200 mVrms (1 kHz, -20 dB)
Number of channels 2
Jacks RCA

Digital audio characteristics

Frequency response	4 Hz to 22 kHz (DVD fs: 48 kHz) 4 Hz to 20 kHz (CD)
S/N ratio	115 dB (EIAJ)
Dynamic range	97 dB (EIAJ)
Total harmonic distortion	0.003 %
Wow and flutter	Limit of measurement (±0.001% W. PEAK) or lower (EIAJ)

Other Terminals

Optical digital output (PCM/ ) Optical digital jack
Coaxial digital output (PCM/ ) RCA jack
CONTROL IN Minijack (3.5ø)

Accessories

Remote control unit 1
AA (LR6) dry cell batteries 2
Audio cord 1
Video cord 1
Power cord 1
Operating Instructions 1

NOTE:

The specifications and design of this product are subject to change without notice, due to improvement.

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<98A08WF5D02>

Printed in Japan <VRB 1192-B>